ORDER NO. SM–97051

Service Manual

Colour Television

TX–W32D3F
TX–W28D3F

EURO–3HW Chassis

Specifications

(Information in brackets {} refer to TX–W28D3F)

Power Source :	220 – 240 V AC, 50Hz		
Power Consumption :	151W {149W}		
Standby Power Consumption :	1W		
Aerial Impedance :	75Ω unbalanced, Coaxial Type		
Receiving System :	PAL B/G, D/K, I, H, PAL – 60 SECAM B/G, D/K, L/L' M.NTSC, NTSC (AV Only)		
Receiving Channels :	VHF E2 – E12		
VHF H1 – H2 (ITALY)	VHF A – H (ITALY)		
VHF R1 – R2	VHF R3 – R5		
VHF R6 – R12	UHF E21 – E69		
CATV (S01 – S05)	CATV S1 – S10 (M1 – M10)		
CATV S11 – S20 (U1 – U10)	CATV S21 – S41 (HYPERBAND)		
Intermediate Frequency :			
Video	38.9MHz,34MHz		
Sound	32.9MHz,33.4MHz 33.16MHz,32.4MHz 40.4MHz,34.05MHz,33.05MHz		
Colour	34.65MHz,34.47MHz,34.5MHz		
Video / AudioTerminals			
AUDIO MONITOR OUT	Audio (RCA x 2)	500mV rms 1kΩ	
AV1 IN Video (21 pin)	1V p–p 75Ω Audio (21 pin) RGB (21 pin)	500mV rms 10kΩ	
AV1 OUT	Video (21 pin) Audio (21 pin)	1V p–p 75Ω 500mV rms 1kΩ	
AV2 IN Video (21 pin)	1V p–p 75Ω Audio (21 pin) S–Video IN (21 pin)	500mV rms 10 kΩ Y : 1V p–p 75Ω C : 0.3V p–p 75Ω	
AV2 OUT	Video (21 pin) Audio (21 pin) Selectable output (21 pin)	1V p–p 75Ω 500mV rms 1kΩ	
AV3 IN S–Video IN	Y : 1V p–p 75Ω (4–pin) Audio (RCA x 2) Video (RCA x 1)	C : 0.3V p–p 75Ω 500mV rms 10kΩ 1V p–p 75Ω	
AV4 IN Video (21 pin)	1V p–p 75Ω Audio (21 pin)	500mV rms 10kΩ	
AV4 OUT	Video (21 pin) Audio (21 pin)	1V p–p 75Ω 500mV rms 1kΩ	
High Voltage :	30.5 kV ±1kV		
Picture Tube :	W76LFC185X05 76 cm {W66EHK51X71 66 cm}		
Visible screen size:	106° deflection		
Audio Output :			
Internal Speaker	2 x 20W (Music Power) 8 Ω Impedance		
Headphones	8 Ω Impedance		
Accessories supplied :	Remote Control 2 x R6 (UM3) Battereis		
Dimensions :	Height :	555cm	{497mm}
	Width :	862cm	{760mm}
	Depth :	553cm	{518mm}
Net Weight		52kg	{39.7kg}

Specifications are subject to change without notice.
Weight and dimensions shown are approximate.

Caractéristiques

(Les informations entre parenthèses {} concernent le TX–W28D3F)

Alimentation :	220 – 240 V AC, 50Hz		
Consommation :	151W {149W}		
Standby Consommation :	1W		
Impédance d'antenne :	75Ω asymétrique sur prise coaxiale		
Systéme de réception :	PAL B/G, D/K, I, H, PAL – 60 SECAM B/G, D/K, L/L' M.NTSC, NTSC (Entrée AV seulement)		
Canaux de réception :	VHF E2 – E2		
VHF H1 – H2 (ITALY)	VHF A – H (ITALY)		
VHF R1 – R2	VHF R3 – R5		
VHF R6 – R12	UHF E21 – E69		
CATV (S01 – S05)	CATV S1 – S10 (M1 – M10)		
CATV S11 – S20 (U1 – U10)	CATV S21 – S41 (HYPERBAND)		
Fréquency Intermédiaire :			
Vidéo	38.9MHz,34MHz		
Sound	32.9MHz,33.4MHz 33.16MHz,32.4MHz 40.4MHz,34.05MHz,33.05MHz		
Colour	34.65MHz,34.47MHz,34.5MHz		
Les bornes vidéo/audio :			
Audio monitor sortie	Audio (RCA x 2)	500mV rms 1kΩ	
Entrée AV1 (21 broches)	Vidéo Audio RGB (21 broches)	1V p–p 75Ω 500mV rms10kΩ	
Sortie AV1 (21 broches)	Vidéo Audio	1V p–p 75Ω 500mV rms1kΩ	
Entrée AV2 (21 broches)	Vidéo Audio S–Video IN (21 broches)	1V p–p 75Ω 500mV rms 10 kΩ Y : 1V p–p 75Ω C : 0.3V p–p 75Ω	
Sortie AV2 (21 broches)	Vidéo Audio Sortie Commutable (21 broches)	1V p–p 75Ω 500mV rms1kΩ	
Entrée AV3	S–Vidéo IN (4–pin) Audio (RCA x 2) Vidéo (RCA x 1)	Y : 1V p–p 75Ω C : 0.3V p–p 75Ω 500mV rms10kΩ 1V p–p 75Ω	
Entrée AV4 (21 broches)	Vidéo Audio	1V p–p 75Ω 500mV rms10kΩ	
Sortie AV4 (21 broches)	Vidéo Audio	1V p–p 75Ω 500mV rms1kΩ	
Tension d'anode :	30.5 kV ±1kV		
Tube image :	W76LFC185X05 76 cm {W66EHK51X71 66 cm} 106° mesure diagonale		
Sortie Audio :			
Hautes parleurs interieurs	2 x 20W (Music Power) 8 Ω Impédance		
Casque d'écoute	8 Ω Impédance		
Accessories fournis :	Télécomande R6 (UM3) Piles x 2		
Dimensions :	Hauteur :	555cm	{497mm}
	Largeur :	862cm	{760mm}
	Profondeur :	553cm	{518mm}
Poids (NET) :		52kg	{39.7kg}

Les caractéristiques techniques sont susceptibles de modification sans Préavis.
Le poids et les dimensions indiqués sont approximatifs.

Panasonic

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SAFETY PRECAUTIONS

General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R–C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the AC outlet.
5. Potentials as high as 31.5kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture to the chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials , connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis the reading must be infinite.

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PRECAUTIONS DE SECURITE

Conseils Generaux

1. Avant d'effectuer toute révision d'un châssis sous tension il est recommandé d'installer un transformateur d'isolation.
2. Il est important, lors des réparations, de conserver laposition initial de tours les fils et faisceaux, surtout dans le circuit de la haute tension. Remplacer toutes les pièces affectées par la chaleur dégagée lors d'un cort–circuit.
3. Aprés les réparations, s'assurer que toutes les pièces protectrices telles que barrières ou papiers isolants,blindages et réseaux d'isolation R–C soient convenablement placées
4. Il est préférable de débrancher le fil d'alimentation si la télé –couleur ne doit pas être utilisée pendant un certain temps.
5. Une tension élevée, de l'odre de 31.5kV , est présente en plusieurs endroits lorsque l,appareil est en circuit. Il y a danger de chocs électriques lorsque le contact est établi en absence du panneau arriére. Toute personne qui tente de réparer cet appareil doit d'abord être consciente des précautions à observer avant de travailler sur un circuit à haute tension. Toujours décharger l'anode du tube cathodique au châssis avant de manipuler.
6. Après tout réparation, on doit effectuer les tests de courant de fuite dans le but d,éviter tout choc.

VERIFICATION DES COURANTS DE FUITE SANS ALIMENTATION

1. Débrancher le fil d'alimentation et installer un fil STRAP entre les deux broches de la fiche.
2. Placer l'interrupteur comme pour établir le contact sur l'appareil.
3. Mesurer la résistance entre les branches de la fiche d'alimentation et les pièces métalliques visibles telles que têtes de vis, antennes, arbre des commandes, support des poignées, etc. Certaines de ces pièces sont en contact avec le châssis et la rèsistance measurée devrait se siture entre 4MΩ, et 20MΩ. La résistance des pièces qui ne sont pas en contact avec le châssis doit être infinie∞.

LEAKAGE CURRENT HOT CHECK

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2kΩ 10W resistor in series with an exposed metallic part on the receiver and an earth such as a water pipe.
3. Use an AC voltmeter with high impedance to measure the potential across the resistor.
4. Check each exposed Metallic part and check the voltage at each point.
5. Reverse the AC plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.4 Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

HOT CHECK CIRCUIT
CIRCUIT DE VERIFICATION A CHAUD

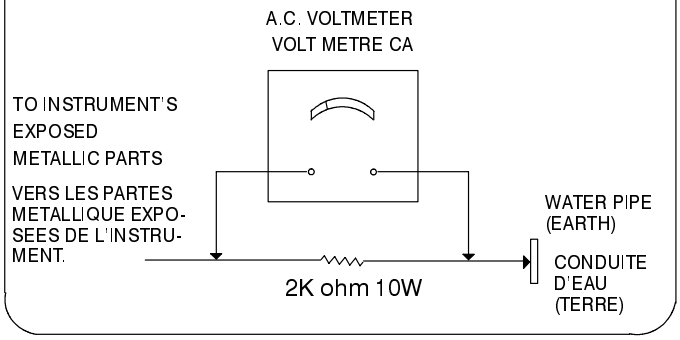


Fig.1

X–RADIATION WARNING

1. The potential sources of X–Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service ensure that the jig is capable of handling 31.5kV without causing X–Radiation.

NOTE : It is important to use an accurate periodically calibrated high voltage meter

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate 30.5kV ±1kV if the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X–Radiation possibility, it is essential to use the specified tube.

VERIFICATION A CHAUD DU COURANT DE FUITE

1. Brancher le cordon secteur directement à une prise secteur. Ne pas utiliser de transformateur d'isolation pour cette vérification.
2. Raccorder une résistance de 2kΩ, 10W, en série avec une partie métallique exposée du récepteur et une terre comme une conduite d'eau.
3. Utiliser un voltmètre CA, de type à impédance élevée, pour mesurer le potentiel à travers la résistance.
4. Vérifier toutes les parties métalliques exposées et mesurer la tension à chaque point.
5. Retourner la fiche CA dans la prise secteur et répéter toutes les mesures ci–dessus.
6. Le potentiel à tous les points ne doit pas dépasser 1.4 volt RMS. AU cas où une mesure est supérieure à cette limite spécifiée, il y a un risque de décharge électrique et le récepteur doit être réparé et revérifié avant d'être rendu au cliente.

IRRADIATION AUX RAYONS X ATTENTION:

1. Les parties de la haute tension et du tube–cathodique d'une télé–couleur sont des sources possible d'emissions de rayons X.
2. Si un tube cathodique témoin est utilisé pour la réparation, s'assurer que son assemblage pourra supporter 31.5kV sans, émettre de radiations.

REMARQUE : Il est important que le multimètre à haute tension utilisé soit étalonné périodiquement.

1. Tourner entièrement vers la gauche la commande de lumière.
2. Mesurer la haute tension à l'aide du multimètre approprié. La valeur nominale est de 30.5kV ±1kV Si la lecture est hors des tolérances, une réparation immédiate s'impose afin de prévenir toute panne prématurée.
3. Il est essentiel d'utiliser le tube cathodique d'origine pour prévenir toute émission de rayons X.

SERVICE HINTS

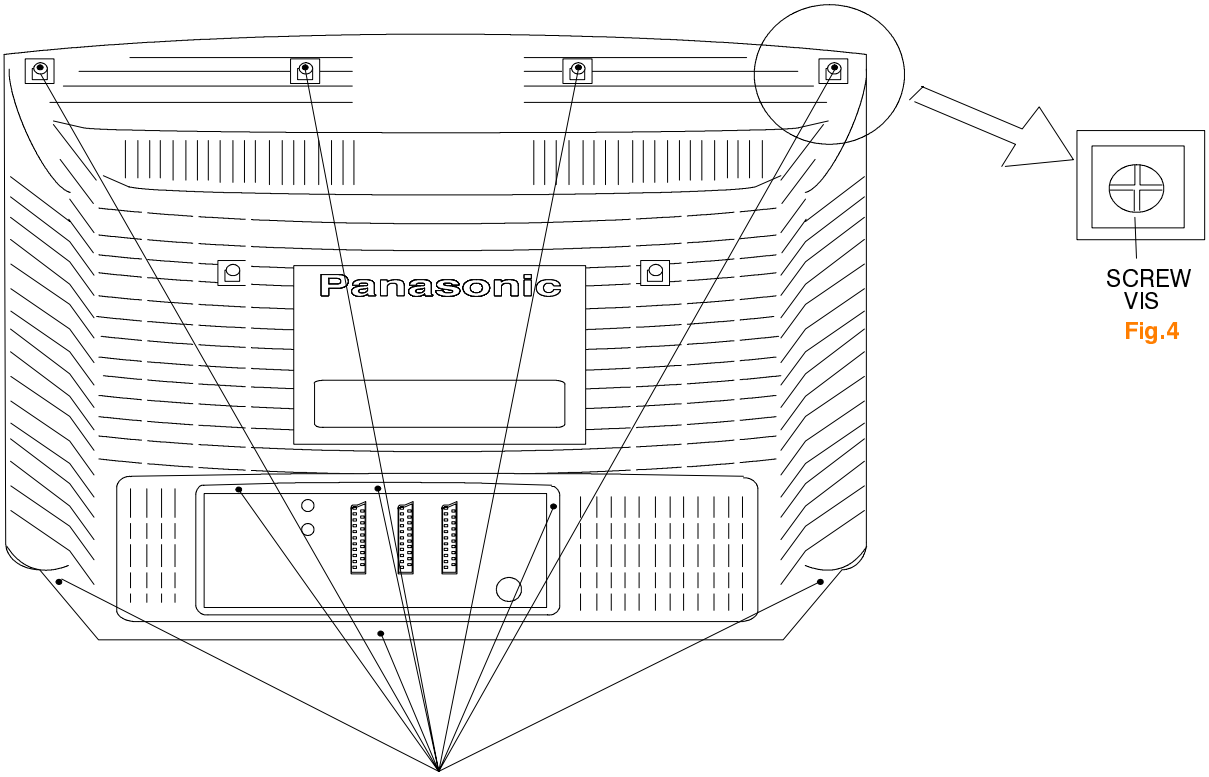
How to remove the rear cover

1. Remove the 10 screws (A) as shown in **Fig.3/Fig.4.**

SUGGESTIONS DE DEPANNAGE

COMMENT RETIRER LE PENNEAU ARRIÈRE

1. Retirer les 10 vis (A) comme sur la **Fig.3. / Fig.4.**



SCREWS (A)
VIS (A)
Fig.3.

Fig.4

LOCATION OF CONTROLS

EMPLACEMENT DES COMMANDES

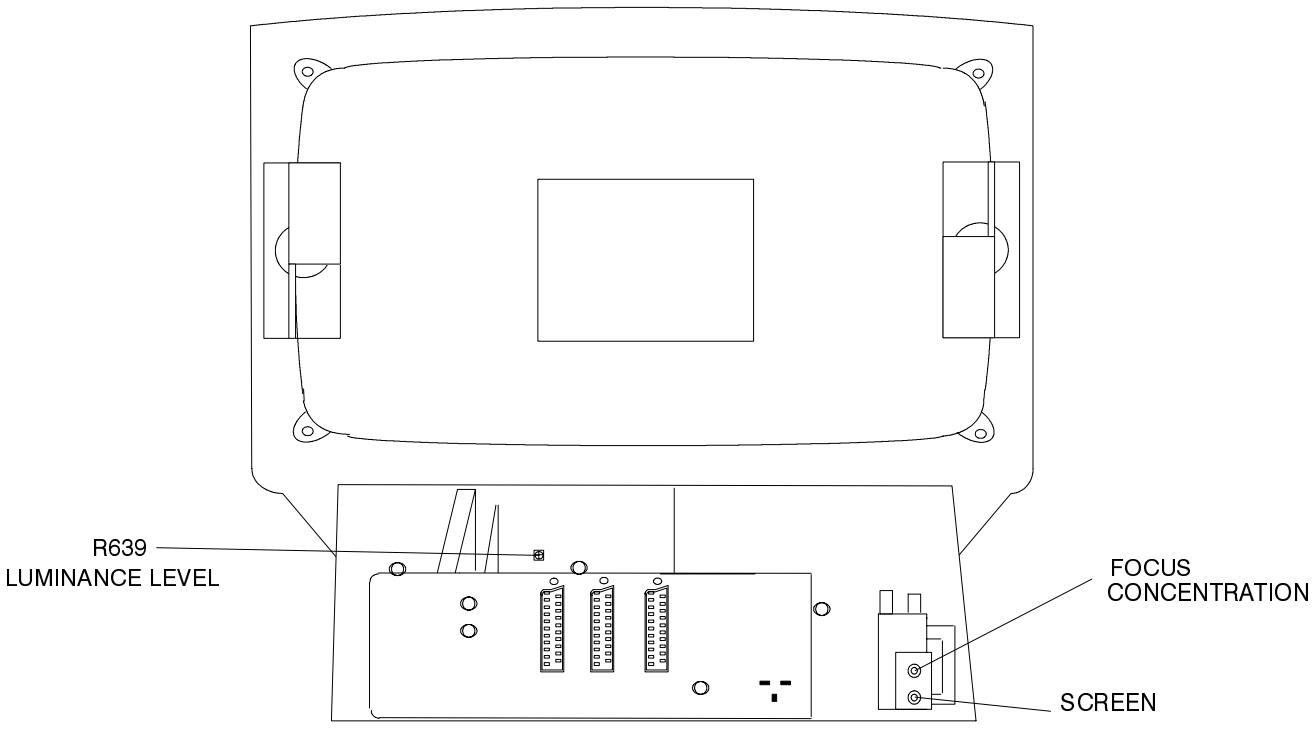


Fig.2

Service Mode

The remote control is used for entering and storing adjustments, with the exception of cut–off adjustments which must always be done prior to service adjustment. Perform adjustments in accordance with screen display. The display on the screen also specifies the CCU variants as well as the approx. setting values. The adjustment sequence for the service mode is indicated below.

1. Set the Bass to maximum position, set the Treble to minimum position, press the Reveal button on the remote control and at the same time press the –/v button on the customer controls at the front of the TV, this will place the TV into the Service Mode.
2. Press the RED / GREEN buttons to step up / down through the functions.
3. Press the YELLOW / BLUE buttons to alter the function values.
4. Press the STORE button after each adjustment has been made to store the required values.
5. To exit the Service Mode press the Normalisation button.

NOTE: This TV also has the option of using a Memory Pack which enables you to copy the preset TV channels into the Memory Pack and then download them onto this or any other EURO–3HW TV set.

TV to Memory Pack process

1. Plug the memory pack into the AV2 21 pin terminal at the back of the TV and switch the TV on.
2. Go into the Service Mode as explained above. The screen will show:–

Program External>>TV

3. Press the blue button on the remote control. The screen will show:–

Program TV>>External

4. Press the STORE button on the TV. The screen will show:–

Storing

5. All the tuning information stored inside the TV will now be transferred to the Memory Pack. This process will take 2–3 minutes to complete and when finished the screen will show:–

OK!

Memory Pack to TV Process

1. Plug the memory pack into the AV2 21 pin terminal at the back of the TV and switch the TV on.
2. Go into the Service Mode as explained above. The screen will show:–

Program External>>TV

3. Press the STORE button on the TV. The screen will show:–

Loading

4. All the tuning information stored inside the Memory Pack will now be transferred to the TV. This process will take 2–3 minutes to complete and when finished the screen will show:–

OK!

5. The tuning information from the Memory Pack has now been copied into the TV.
6. To exit from the Service Mode press the Normalisation button.
7. The process has now been completed and the Memory Pack can now be removed.

ERRORS

If an error occurs while using the Memory Pack the TV will detect this and the screen will show:–

Program Error!

If this happens then press the Normalisation button and repeat the process that was being used. If the errors continue to occur then check the connectors between the TV and the memory pack and check the 9V battery inside the memory pack.

RÉGLAGES

La télécommande sert à entrer et stocker les données des réglages. Sauf pour le cut–off qui doit être réalisé en priorité.
Les réglages s'affichent sur l'êcran, ainst qui les spécificités nominales du CCU.

1. Régler par la télécommande le niveau de **Grave** au **maximum, Aigu** au **minimum**. Appuyer simultanément sur le bouton –/v en face avant du TV et le bouton **Reveal** de la télécommande. Ces actions positionnent le TV en Mode Service.
2. Appuyer sur la touch **ROUGE** ou **VERTE** pour sélectionner la fonction déstrée.
3. Appuyer sur la touche **JAUNE** ou **BLEUE** pour modifier les valeurs des réglages.
4. Mettre en mémoire après chaque réglage, en appuyant sur la touche **STORE**.
5. Pour sortir de la position SERVICE MODE arrèter le TV

REMARQUE : Le Memory Pack permet de copier la configuration du TV, (Chaines, Niveaux analogiques) et de la transférer, via le
Memor vers un autre TV EURO–3HW.

Processus de transfert "téléviseur vers bloc–mémoire"

1. La partie arrière du téléviseur comporte trois connecteurs à 21 broches : brancher le bloc–mémoire dans le connecteur AV2, puis mettre le téléviseur en marche ("ON").
2. Passer en Mode Service (voir ci–dessus). L'écran affichera:

Program External>>TV

3. Appuyer sur la bouton BLEU de la télécommande. L'écran du téléviseur présente le message suivant:

Program TV>>External

4. Appuyer sur la bouton de mémorisation (STORE) du téléviseur et l'ecran présentera la message suivant :

Storing

5. Toutes les informations de syntonisation enregistées par le téléviseur seront maintenant transférées vers le bloc–mémoire. Cette opération ne prend que 2 à 3 minutes. Lorsqu'elle est terminée, l'écran du téléviseur présentera message suivant :

OK!

Processus de transfert "bloc–mémoire vers téléviseeur"

1. La partie arrière du téléviseur comporte trois connecteurs à 21 broches : brancher le bloc–mémoire dans le connecteur AV2, puis mettre le téléviseur en marche ("ON").
2. Passer en Mode Service (voir ci–dessus). L'écran afficherat:

Program External>>TV

3. Appuyer sur la bouton de mémorisation (STORE) du téléviseur et l'ecran présentera la message suivant:

Loading

4. Toutes les informations de syntonisation enregistées par le téléviseur seront maintenant transférées vers le bloc–mémoire. Cette opération ne prend que 2 à 3 minutes. Lorsqu'elle est terminée, l'écran du téléviseur présentera message suivant:

OK!

5. Les informations de syntonisation du téléviseur du bloc–mémoire ont maintenant été copiées dans le téléviseur.
6. Pour sortir du mode d'exploitation SERVICE, mettre le tèlèviseur hors circuit ("OFF").
7. Une fois l'opération terminée, enlever le bloc–mémoir.

ERREURS

Le téléviseur détectra toutes les erreure susceptibles de se produire éventuellement pendant l'utillisation du bloc–mémoire.L'écran présentera alors le message suivant:

Program Error!

Dans ce cas, mettre le téléviseur hors circuit ("OFF") plus répéter l'opéation qui était en cours. En cas d'erreurs répétées, vérifier les connexions entre le téléviseur et le bloc–mémoir, puls contrôler l'état de la pile 9V à l'intérieur du bloc–mémoire.

Alignment Settings

(The figures used below are nominal and used for representative purposes only)

Alignment Function		Settings / Special features
Vertical amplitude	V–AMP 038	Optimum setting
Vertical linearity	V–LIN 022	
V–Pos.	V–POS 005	Optimum setting
Horizontal amplitude	H–AMP 043	Optimum setting
Horizontal position	H–POS 035	
EW–amplitude	E/W–AMP 1 020	Optimum setting
EW–amplitude	E/W–AMP 2 015	Optimum setting
Trapezium–comp	TRAPEZ–1 004	Optimum setting
Vert. DC.	VERT. D.C. 008	Not to be adjusted.
Text Position	TEXT POSITION 060	Optimum setting
Cutoff	– – –	Select a window pattern enter Service Mode and step through to Cutoff, connect an oscilloscope to the Blue Cathode and adjust the screen VR of the FBT to get 150±5V at the base of the Cutoff pulse.
Cutoff RGB	CUTOFF RGB 032 032 032	Press the GREEN button to step through the settings. Adjust for optimum.
White RGB	WHITE RGB 032 032 032	Press the GREEN button to step through the settings. Adjust for optimum.
Sub Brightness	SUB BRIGHT 000	Optimum setting

RÉGLAGES

(Les figures ci−dessous sont fictives et utilisées uniquement à des fins représentatives)

Fonctions		Réglages / Points particuliers
Amplitude verticale	V−AMP 038	Optimiser les réglages
Linèarité verticale	V−LIN 022	
V−Pos.	V−POS 005	Optimiser les réglages
Amplitude horizontal	H−AMP 043	Optimiser les réglages
Centrage horizontal	H−POS 035	
Amplitude E.O.	E/W−AMP 1 020	Optimiser les réglages
Amplitude E.O.	E/W−AMP 2 015	Optimiser les réglages
Correction trapèze	TRAPEZ−1 004	Optimiser les réglages
Vert. DC.	VERT. D.C. 008	Ne pas régler
Text Position	TEXT POSITION 060	Optimiser les réglages
Cutoff	− − −	Selectionner une mire, passer en mode service, et pas à pas atteindre le menu Cutoff. Placer la sonde de l'oscilloscope sur la cathode Bleue. Régler la tension d'écran sur le transformateyr THT pour obtenir 150±5V à la base de l'impulsion de Cutt off.
Cutoff RGB	CUTOFF RGB 032 032 032	Appuyer sur la touche VERTE pour acéder aux réglages. Régler pour optimiser.
White RGB	WHITE RGB 032 032 032	Appuyer sur la touche VERTE pour acéder aux réglages. Régler pour optimiser.
Sub brightness	SUB BRIGHT 000	Optimiser les réglages

ADJUSTMENT PROCEDURE

Item/Preparation	Adjustments
Supply Voltage Check 1. Receive a greyscale pattern 2. Set the controls: Brightness Minimum Contrast Minimum Volume Minimum	1. Confirm the following voltages. **E PCB** **U5B** 5 ± 0.5V **U8A** 8 ± 0.5V **U9** 9 ± 0.5V **U12** 11.8 ± 0.5V **D PCB** **U5A** 5.1 ± 0.12/0.1V **U5SB** 5 ± 0.25V **U15** 15 ± 0.7V **U16** 16.1 ± 0.8V **U22** 22.5 ± 1V **U38** 19 ± 1V **U47** 47.5 ± 2.5V **U150** 150 ± 1V **U200** 204 ± 10V

RÉGLAGES

Préparation	Réglages
1. Appliquer une mire à carreaux N/B 2. Régler les contrôles suivants Lumière Minimum Contraste Minimum Volume Minimum	1. Confirmer le réglage : **E PCB** **U5B** 5 ± 0.5V **U8A** 8 ± 0.5V **U9** 9 ± 0.5V **U12** 11.8 ± 0.5V **D PCB** **U5A** 5.1 ± 0.12/0.1V **U5SB** 5 ± 0.25V **U15** 15 ± 0.7V **U16** 16.1 ± 0.8V **U22** 22.5 ± 1V **U38** 19 ± 1V **U47** 47.5 ± 2.5V **U150** 150 ± 1V **U200** 204 ± 10V

SELF CHECK

Self check is used to automatically check the Bus Lines and Hexadecimal code of the TV set.
To get into the Self Check mode press the Status button on the Remote Control at the same time pressing the –/v button on the customer controls at the front of the TV, and the screen will show:–
When exiting Self Check the customer settings will return to factory setup.

0 — ok	Test Byte		8 — ok	Col Decoder (M)	
1 — ok	Lst Power		9 — ok	Clock generator	
2 — ok	U5 Det		10 — ok	V – Processor	
3 — ok	Protector		11 — ok	DFU	
4 — ok	Not Used		12 — ok	Display Processor	
5 — ok	Not Used		13 — ok	RGB Processor	
6 — ok	Not Used		14 — ok	Deflection IC	
7 — ok	Not Used		15 — ok	MSP	

If the CCU ports have been checked and found to be incorrect or not located then "––" will appear in place of "OK".

		Hex codes TX–W32D3F	Hex codes TX–W28D3F
16 — ––	Col Decoder (P)	49	09
17 — ––	Q – PIP	73	73
18 — ok	Not Used	E5	E5
19 — ok	Not Used	BF	BF
20 — ok	EAROM	BB	BB
21 — ok	Audio Matrix	FB	FB
22 — ok	Video Matrix	03	03
23 — ok	Tuner		

AUTO TEST

L'auto test est utilisé pour véifier le BUS et les codes Hexadécimaux du TV.
Pour renter dans le mode **Auto Test** presser le bouton Statu de la télécommande et simultanément le bouton : –/v en face avant du TV. Le menu Auto Test s'affiche:–
Après un Auto Test (Self Check) le téléviseyr retourne en position réglages usine.

0 — ok	Test Byte		8 — ok	Col Decoder (M)	
1 — ok	Lst Power		9 — ok	Clock generator	
2 — ok	U5 Det		10 — ok	V – Processor	
3 — ok	Protector		11 — ok	DFU	
4 — ok	Not Used		12 — ok	Display Processor	
5 — ok	Not Used		13 — ok	RGB Processor	
6 — ok	Not Used		14 — ok	Deflection IC	
7 — ok	Not Used		15 — ok	MSP	

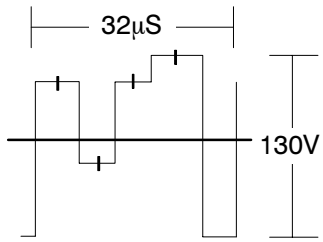
Si les ports du CCU ont été testés et qu'ils soient incorrectes ou non identifiés lorsqu'il apparait "– –" au lieu de"OK".

		Hex codes TX–W32D3F	Hex codes TX–W28D3F
16 — ––	Col Decoder (P)	49	09
17 — ––	Q – PIP	73	73
18 — ok	Not Used	E5	E5
19 — ok	Not Used	BF	BF
20 — ok	EAROM	BB	BB
21 — ok	Audio Matrix	FB	FB
22 — ok	Video Matrix	03	03
23 — ok	Tuner		

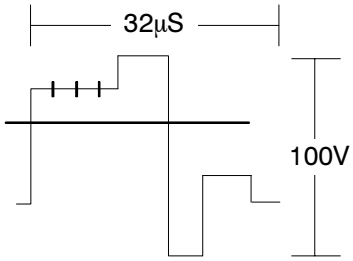
WAVEFORM PATTERN TABLE
TABLEAU DE MIRES DE FORMA D'ONDES

NOTE: All waveforms have been taken using a standard colour bar pattern
REMARQUE: Tous les oscillogrammes ont été relevés avec une mire de barres couleur standard.

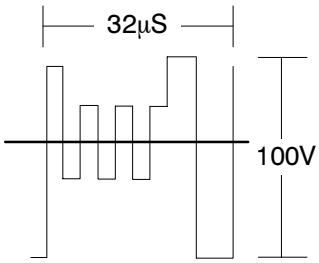
RED DRIVE
TPY1



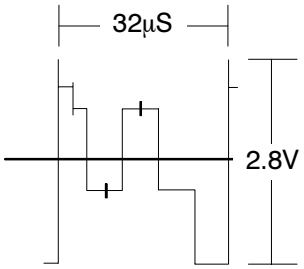
GREEN DRIVE
TPY2



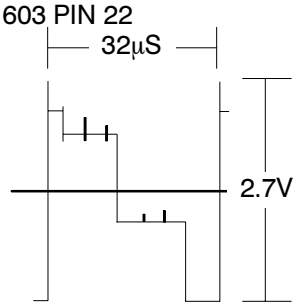
BLUE DRIVE
TPY3



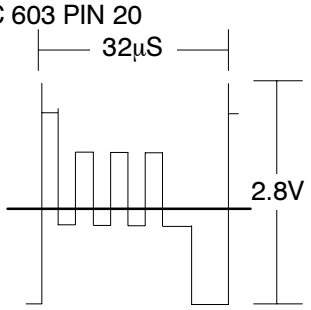
RED OUTPUT
IC 603 PIN 24



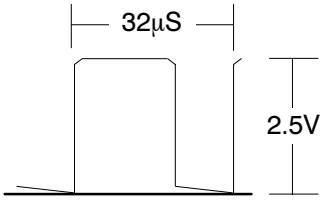
GREEN OUTPUT
IC 603 PIN 22



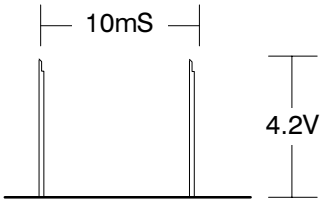
BLUE OUTPUT
IC 603 PIN 20



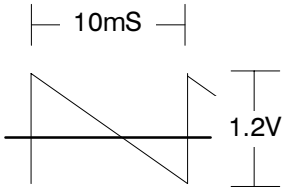
HORIZONTAL SYNC
IC 3501 PIN 4



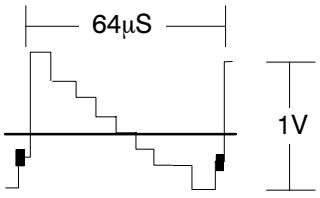
VERTICAL SYNC
IC 3501 PIN 3



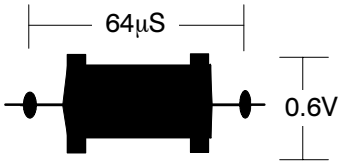
VERT OUTPUT IC (INPUT)
IC 451 PIN 1



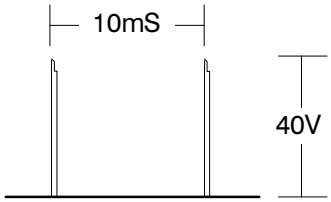
LUMINANCE IN
IC601 PIN 26



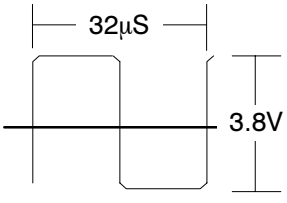
CHROMINANCE IN
IC601 PIN 25



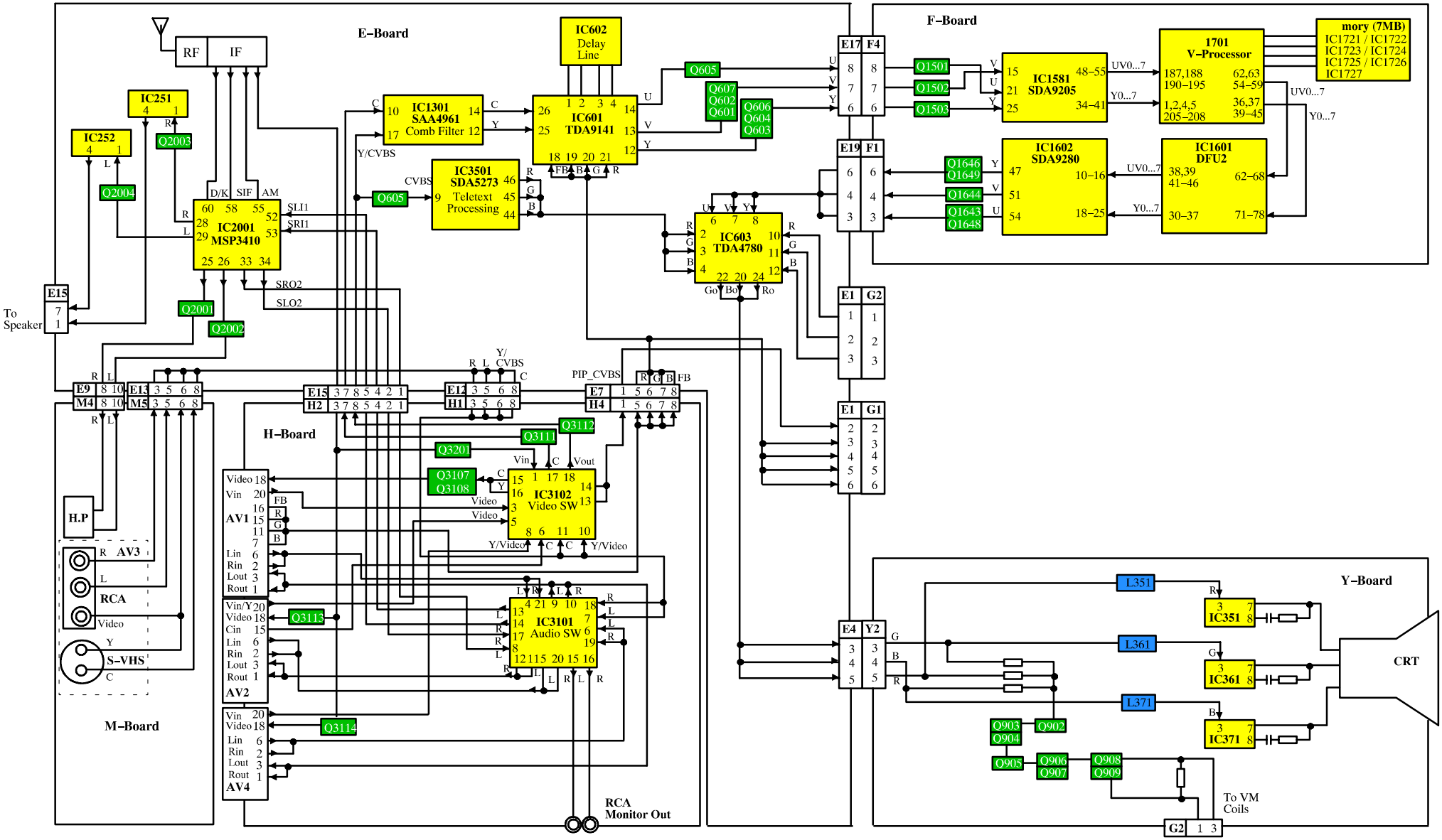
VERTICAL OUTPUT (DRIVE)
IC 451 PIN 9

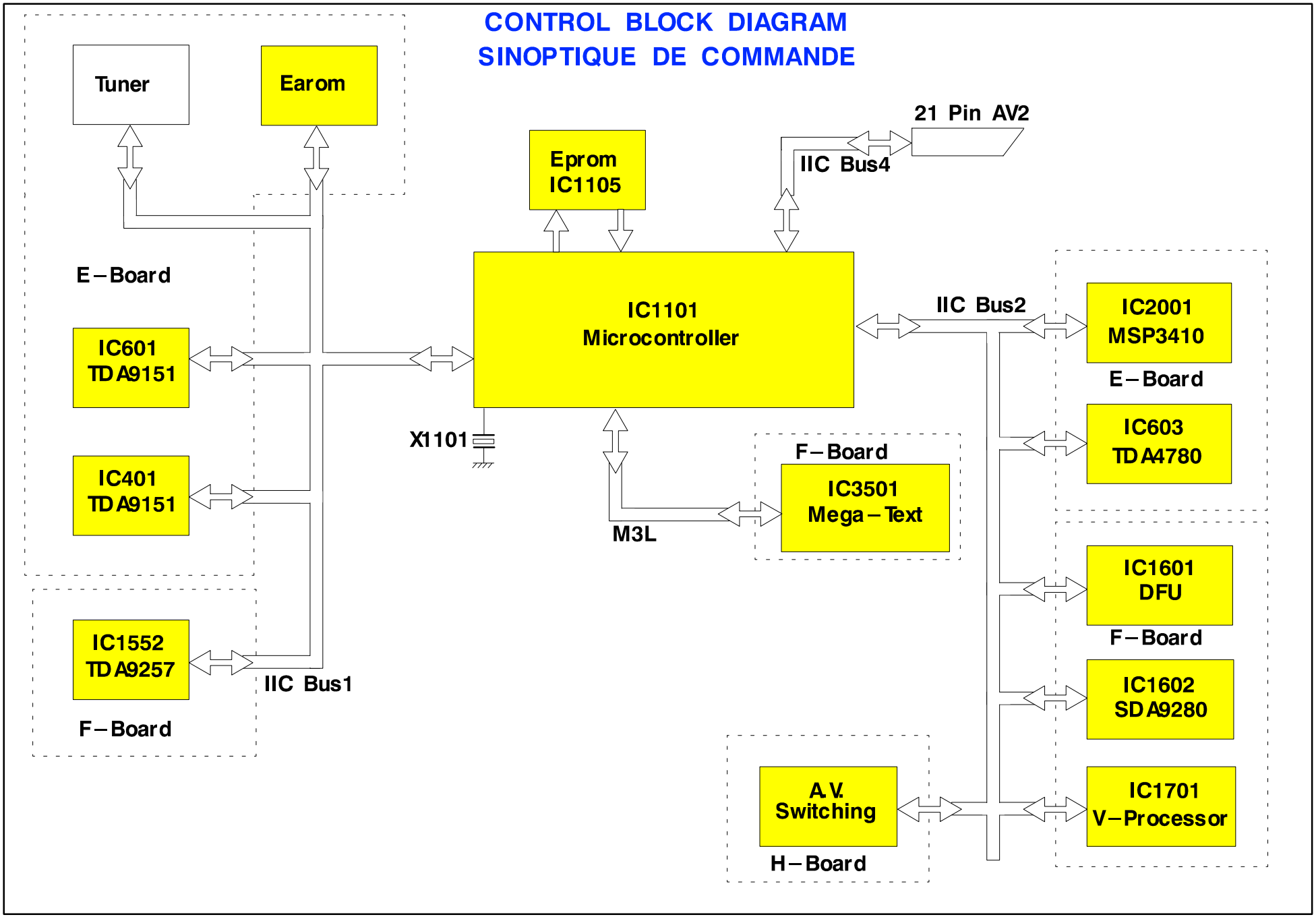


HORIZONTAL OUTPUT
IC401 PIN 20



VIDEO AND AUDIO SIGNAL PROCESSING BLOCK DIAGRAM
SINOPTIQUE VIDEO / AUDIO




CONTROL BLOCK DIAGRAM
SINOPTIQUE DE COMMANDE
Tuner
Earom
E – Board
IC601
TDA9151
IC401
TDA9151
IC1552
TDA9257
F – Board
IIC Bus1
Eprom
IC1105
IC1101
Microcontroller
X1101
21 Pin AV2
IIC Bus4
IIC Bus2
F – Board
IC3501
Mega – Text
M3L
IC2001
MSP3410
E – Board
IC603
TDA4780
IC1601
DFU
F – Board
IC1602
SDA9280
A.V.
Switching
H – Board
IC1701
V – Processor

PARTS LOCATION

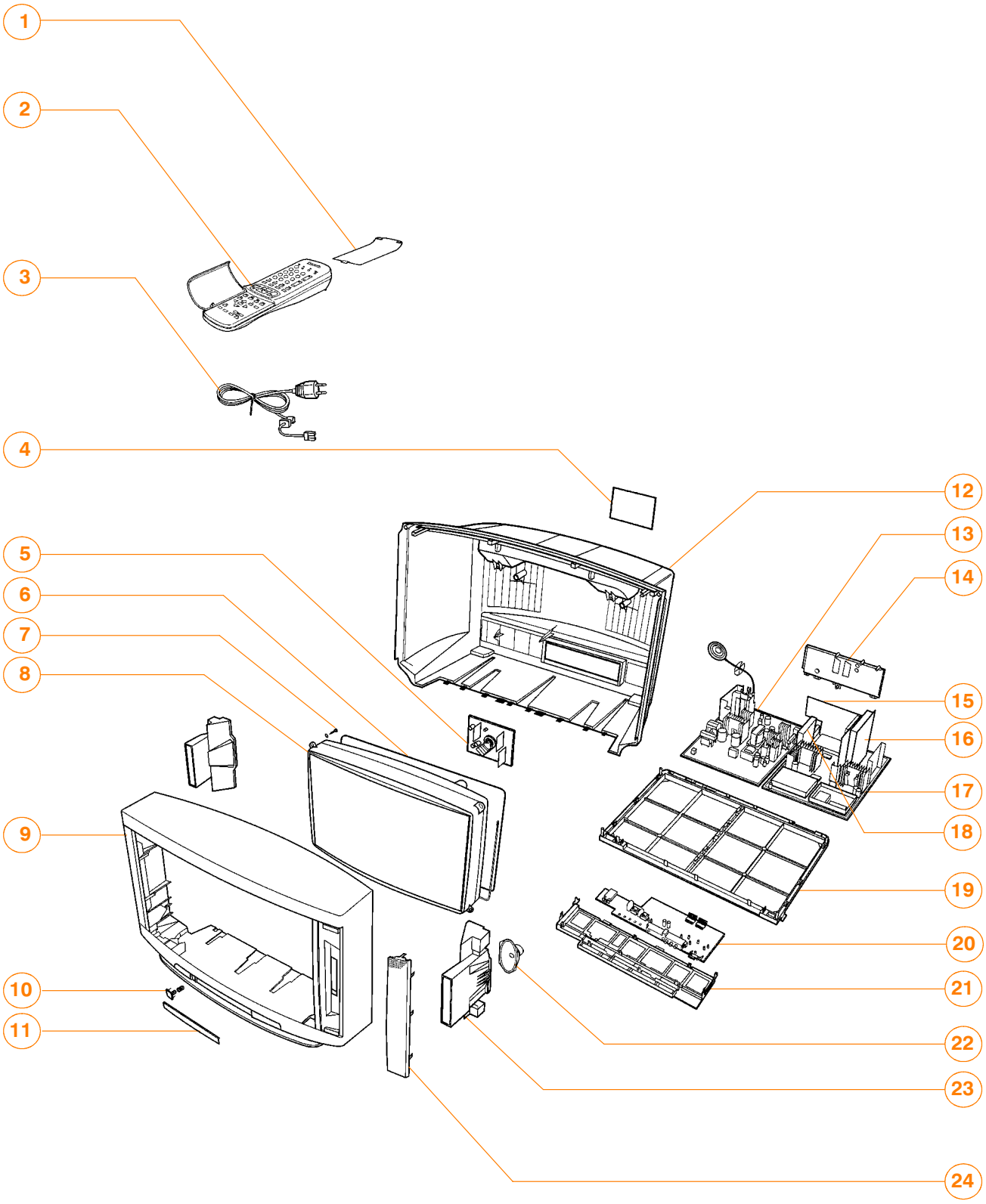
NOTE :

The numbers on the exploded view below refer to the miscellaneous section of the Replacement Parts List.

EMPLACEMENT DES PIECES

REMARQUE :

Les numéros sur les pièces mécaniques indiquent les NO. de réf. da la liste des pieces de rechange.



REPLACEMENT PARTS LIST

Important Safety Notice
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

LISTE DES PIÈCES DE RECHANGE

Remarque importante pour la sécrité
Les éléments portant la indication ⚠ possèent des caractéristiques de séurité spécials Lors du remplacement de l'une quelconque des ces pièces, n'utiliser que celles spécifiées par la fabricant.

COMMON PARTS FOR TX−W32D3F AND TX−W28D3F

MISCELLANEOUS COMPONENTS

Ref No.	Part No.	Description	
1)	UR51EC780	BATTERY COVER (REMOTE)	
2)	EUR51923	REMOTE CONTROL	
3)	TSX8E0020	POWER CORD	⚠
4)	**********	REFER TO DIFFERENCE LIST	
5)	**********	REFER TO DIFFERENCE LIST	
6)	**********	REFER TO DIFFERENCE LIST	
7)	THT1062	CRT FIXING SCREW	
8)	**********	REFER TO DIFFERENCE LIST	
9)	**********	REFER TO DIFFERENCE LIST	
10)	TBX8E033	POWER BUTTON	
11)	TBM8E1728	PANASONIC BADGE	
12)	**********	REFER TO DIFFERENCE LIST	
13)	**********	REFER TO DIFFERENCE LIST	
14)	TKP8E1153	AV COVER	
15)	TNPA0293AJ	H P.C.B.	⚠
16)	TNPA0294AD	F P.C.B.	⚠
17)	**********	REFER TO DIFFERENCE LIST	
18)	TNPA0317AA	B P.C.B.	⚠
19)	TMX8E014	CHASSIS FRAME	
20)	**********	REFER TO DIFFERENCE LIST	
21)	TMW8E023	CONTROL BRACKET	
22)	EAGG1218F2	SPEAKER	
23)	TKK8E026	SPEAKER REFLECTOR	
24)	**********	REFER TO DIFFERENCE LIST	
	TKP8E1149	LID	
	TKP8E1150	FRONT PANEL RIGHT	
	TKP8E1160	FRONT PANEL RIGHT	
	ENV57D03G3	TUNER	⚠
	TEK6940	LID CATCHER	
	TBM8E1778	REAR AV LABEL	
	TLT100K991R	COIL	
	TMW8E017	L.E.D.HOLDER	
	TMX8E015	PCB SUPPORT BRACKET	
	TQB8E2381A	GERMAN INST BOOK	⚠
	TQB8E2381B	DUTCH INST BOOK	⚠
	TQB8E2381C	ITALIAN INST BOOK	⚠
	TQB8E2381D	FRENCH INST BOOK	⚠
	TQB8E2381E	SPANISH INST BOOK	⚠
	TQB8E2381F	SWEDISH INST BOOK	⚠
	TQB8E2381G	NORWEGIAN INST BOOK	⚠
	TQB8E2381H	SUOMI INST BOOK	⚠
	TQB8E2381K	DANISH INST BOOK	⚠
	TQA8E2043	SCHEMATIC DIAGRAM (ITALY)	⚠
	TBM8E1532−2	PRESET PANEL	
	UM−3DJ−2P	BATTERY−SET	
	832AG11D−ESL	I.C.SOCKET	
	31221212478	FIX CLIP	
	TES4537	SPRING	
	TES4537	SPRING	
	TES4537	SPRING	
	TES4537	SPRING	
	F9−4−220	RELAY	
	PCS−068A−1	68 PIN I.C.SOCKET	
	ERC12GK825	SOLID 0.5W 10% 8M2Ω	
	ERDS1TJ6R8	CARBON 0.5W 5% 6R8Ω	

INTEGRATED CIRCUITS

IC101	TDA9814TV3	VIF
IC251	TDA2030AV	AUDIO AMPLIFIER
IC252	TDA2030AV	AUDIO AMPLIFIER
IC351	TDA6111	RGB OUTPUT
IC361	TDA6111	RGB OUTPUT
IC371	TDA6111	RGB OUTPUT

Ref No.	Part No.	Description
IC401	TDA9151−B	DEFLECTION CONTROL
IC451	TDA8350Q/N5	VERTICAL OUTPUT
IC601	TDA9143−N1	COLOUR DECODER
IC602	TDA4665−V4	DELAY LINE
IC603	TDA4780	RGB VIDEO PROCESSOR
IC845	SE140N	ERROR AMPLIFIER
IC851	TL431ACLPM	COIL
IC852	TL431ACLPM	COIL
IC1051	RPM−637CBRS1	LED RECEIVER
IC1101	SDA30C164−2	MICRO PROCESSOR
IC1102	S−80745AL−Z	RESET
IC1103	MN1280R	RESET
IC1301	SAA4961	COMB FILTER
IC1551	SN74F04DR	CLOCK
IC1552	SDA9257	CLOCK GENERATOR
IC1581	SDA9205−2GEG	A/D CONVERTER
IC1601	UPD93213GF	DFU
IC1602	SDA9280B21GE	VISUAL PROCESSOR
IC1701	MB87D202A	VIDEO PROCESSOR
IC1721	SDA9251−2XGE	RAM
IC1722	SDA9251−2XGE	RAM
IC1723	SDA9251−2XGE	RAM
IC1724	SDA9251−2XGE	RAM
IC1725	SDA9251−2XGE	RAM
IC1726	SDA9251−2XGE	RAM
IC1727	SDA9251−2XGE	RAM
IC2001	MSP3410DPPB4	AUDIO PROCESSOR
IC3101	TEA6420	AUDIO SWITCH
IC3102	TEA6415C	VIDEO SWITCH
IC3501	SDA5273S/134	MEGA TEXT
IC3502	M514256B70RS	DRAM
IC3801	AN7808LB	8V REGULATOR
IC3803	AN7805LB	5V REGULATOR
IC3804	AN7809FLB	9V REGULATOR
IC3805	AN78L08TA	8V REGULATOR

CAPACITORS

C002	ECUV1H102JCX	S.M.CAP	50V	1nF
C003	ECA1HM101GB	ELECT	50V	100pF
C004	ECUV1H102JCX	S.M.CAP	50V	1nF
C005	ECUV1H102JCX	S.M.CAP	50V	1nF
C006	ECUV1H102JCX	S.M.CAP	50V	1nF
C007	ECUV1H102JCX	S.M.CAP	50V	1nF
C009	ECA1HMR22GB	ELECT	50V	0.22μF
C010	ECUV1H102KBX	S.M.CAP	50V	1nF
C014	ECUV1H103ZFX	S.M.CAP	50V	10nF
C015	ECUV1H390JCX	S.M.CAP	50V	39pF
C016	ECUV1H390JCX	S.M.CAP	50V	39pF
C017	ECA1CM470GB	ELECT	16V	47μF
C019	ECUV1H561JCX	S.M.CAP	50V	560pF
C020	ECUV1H103ZFX	S.M.CAP	50V	10nF
C022	ECUV1H103ZFX	S.M.CAP	50V	10nF
C023	ECUV1H681JCX	S.M.CAP	50V	680pF
C024	ECUV1H103ZFX	S.M.CAP	50V	10nF
C025	ECUV1H101JCX	S.M.CAP	50V	100pF
C026	ECUV1H681JCX	S.M.CAP	50V	680pF
C101	ECUV1H104ZFX	S.M.CAP	50V	100nF
C106	ECUV1H104ZFX	S.M.CAP	50V	100nF
C108	ECUV1H104ZFX	S.M.CAP	50V	100nF
C109	ECUV1H104ZFX	S.M.CAP	50V	100nF
C111	ECUV1H103ZFX	S.M.CAP	50V	10nF
C113	ECUV1H393KBX	S.M.CAP	50V	39nF
C115	ECUV1H104ZFX	S.M.CAP	50V	100nF
C116	ECUV1H030CPX	S.M.CAP	50V	30pF
C117	ECUV1H070DTX	S.M.CAP	50V	70pF
C118	ECEA1CKA100	ELECT	16V	10μF
C120	ECEA1HKA2R2	ELECT	50V	2.2μF

Ref No.	Part No.		Description		
C121	ECEA1HKA2R2	ELECT	50V	2.2μF	
C122	ECUV1C105ZFX	S.M.CAP	16V	1000nF	
C123	ECEA1HKA2R2	ELECT	50V	2.2μF	
C124	ECUV1H471JCX	S.M.CAP	50V	470pF	
C125	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C126	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C127	ECEA1CKA100	ELECT	16V	10μF	
C128	ECUV1H102KBX	S.M.CAP	50V	1nF	
C129	ECEA1CKA100	ELECT	16V	10μF	
C130	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C131	ECUV1H102KBX	S.M.CAP	50V	1nF	
C132	ECUV1H102KBX	S.M.CAP	50V	1nF	
C133	ECUV1H102KBX	S.M.CAP	50V	1nF	
C134	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C135	ECEA1CKA100	ELECT	16V	10μF	
C136	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C137	ECUV1H100DCX	S.M.CAP	50V	10pF	
C138	ECUV1H151JCX	S.M.CAP	50V	150pF	
C139	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C140	ECUV1H151JCX	S.M.CAP	50V	150pF	
C142	ECUV1H100DCX	S.M.CAP	50V	10pF	
C143	ECUV1H220JCX	S.M.CAP	50V	22pF	
C144	ECUV1H151JCX	S.M.CAP	50V	150pF	
C145	ECUV1H151JCX	S.M.CAP	50V	150pF	
C146	ECUV1H120JCX	S.M.CAP	50V	12pF	
C148	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C150	ECEA1CKA100	ELECT	16V	10μF	
C151	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C152	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C153	ECUV1H120JCX	S.M.CAP	50V	12pF	
C158	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C159	ECUV1H080CCX	S.M.CAP	50V	80pF	
C251	ECQM1H474J	FILM	50V	470nF	
C252	ECUV1H222JCX	S.M.CAP	50V	2.2nF	
C253	ECUV1H393KBX	S.M.CAP	50V	39nF	
C254	ECUV1H393KBX	S.M.CAP	50V	39nF	
C255	ECEA1CN100	ELECT	16V	10μF	
C256	ECA1HM100GB	ELECT	50V	10pF	
C257	ECA1HM100GB	ELECT	50V	10pF	
C258	ECQM1H474J	FILM	50V	470nF	
C259	ECUV1H222JCX	S.M.CAP	50V	2.2nF	
C260	ECUV1H393KBX	S.M.CAP	50V	39nF	
C261	ECUV1H393KBX	S.M.CAP	50V	39nF	
C262	ECEA1CN100	ELECT	16V	10μF	
C263	ECA1HM100GB	ELECT	50V	10pF	
C264	ECA1HM100GB	ELECT	50V	10pF	
C267	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C268	ECUV1H223ZFX	S.M.CAP	50V	22nF	
C269	ECA1EM222GB	ELECT	25V	2.2nF	
C270	ECA1EM222GB	ELECT	25V	2.2nF	
C271	ECA1HM010GB	ELECT	50V	1pF	
C272	ECA1HM010GB	ELECT	50V	1pF	
C273	ECA1HM010GB	ELECT	50V	1pF	
C274	ECA1HM010GB	ELECT	50V	1pF	
C275	ECUV1C184KBX	S.M.CAP	16V	0.18μF	
C276	ECUV1C184KBX	S.M.CAP	16V	0.18μF	
C277	ECEA1HU471	ELECT	50V	470μF	
C281	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C282	ECUV1H561JCX	S.M.CAP	50V	560pF	
C283	ECUV1H561JCX	S.M.CAP	50V	560pF	
C352	ECUV1H224ZFX	S.M.CAP	50V	0.22μF	
C353	ECUV1H103KBX	S.M.CAP	50V	10nF	
C354	ECKC2H103J	CERAMIC	50V	10nF	⚠
C355	ECKC2H102J	CERAMIC	500V	1nF	⚠
C362	ECUV1H224ZFX	S.M.CAP	50V	0.22μF	
C363	ECUV1H103KBX	S.M.CAP	50V	10nF	
C364	ECKC2H103J	CERAMIC	50V	10nF	⚠
C365	ECKC2H102J	CERAMIC	500V	1nF	⚠
C372	ECUV1H224ZFX	S.M.CAP	50V	0.22μF	
C373	ECUV1H103KBX	S.M.CAP	50V	10nF	
C374	ECKC2H103J	CERAMIC	50V	10nF	⚠
C375	ECKC2H102J	CERAMIC	500V	1nF	⚠
C381	ECA1HM101GB	ELECT	50V	100pF	
C382	ECA0JM471GB	ELECT	6.3V	470pF	
C383	ECUV1H103KBX	S.M.CAP	50V	10nF	
C384	ECQM2104KZ	FILM	250V	100nF	
C385	ECEA2EU220	ELECT	250V	22μF	
C386	ECKC3D152J	CERAMIC	2KV	1.5nF	⚠
C395	ECQM1H104J	FILM	50V	100nF	
C402	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C403	ECA1AM332E	ELECT	10V	3.3nF	

Ref No.	Part No.		Description		
C404	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C405	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C406	ECUV1H471JCX	S.M.CAP	50V	470pF	
C409	ECUV1H101JCX	S.M.CAP	50V	100pF	
C413	ECUV1H561KBX	S.M.CAP	50V	560pF	
C451	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C452	ECA1EM332E	ELECT	25V	3.3nF	
C453	ECEA1HU101	ELECT	50V	100μF	
C455	ECEA1HN100	ELECT	50V	10μF	
C456	ECQV1104JZ3	FILM	100V	100nF	
C457	ECUV1H102JCX	S.M.CAP	50V	1nF	
C461	ECUV1C224KBX	S.M.CAP	16V	220nF	
C462	ECKC3A471J	CERAMIC	1KV	470pF	⚠
C463	ECUV1H102KBX	S.M.CAP	50V	1nF	
C464	ECKC1H102J	CERAMIC	50V	1000pF	
C501	ECQM1H224J	FILM	50V	220nF	
C502	ECQM2683JZ	FILM	250V	68nF	
C503	ECKC2H102J	CERAMIC	500V	1nF	⚠
C504	ECQB1H223K	FILM	50V	22nF	
C506	ECKC2H102J	CERAMIC	500V	1nF	⚠
C552	ECWH15H102J	FILM	1500V	1nF	
C553	ECQP1223JZW	FILM	100V	22nF	
C555	ECWH15H622J	FILM	1500V	6.2nF	
C556	ECEA2CNR47SB	ELECT	160V	R47μF	
C557	ECKC2H331J	CERAMIC	500V	330pF	⚠
C558	ECA2EM330B	ELECT	250V	33pF	
C559	ECKC2H101J	CERAMIC	500V	100pF	⚠
C560	ECA1EM332E	ELECT	25V	3.3nF	
C561	ECKC2H561J	CERAMIC	500V	560pF	⚠
C562	ECA1JM220B	ELECT	63V	22pF	
C563	TAC7A2D564JC	CERAMIC	1500V	0.56μF	
C564	ECKC1H472J	CERAMIC	50V	4.7nF	
C565	ECQP1223JZW	FILM	100V	22nF	
C571	ECQV1H105JZ	FILM	50V	1μF	
C572	ECWH15H682J	FILM		6.8nF	
C573	ECQF4153JZH	FILM	400V	15nF	
C575	TAC1114Z564A	CERAMIC	400V	0.56μF	
C577	TAC1114Z105A	CERAMIC	400V	1μF	
C580	ECKC1H103JB	CERAMIC	50V	10nF	
C584	ECKC3D391J	CERAMIC	2KV	390pF	⚠
C585	ECKC3A471J	CERAMIC	1KV	470pF	⚠
C586	ECKC1H103JB	CERAMIC	50V	10nF	
C601	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C602	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C603	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C604	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C605	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C606	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C608	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C609	ECUV1H180JCX	S.M.CAP	50V	18pF	
C610	ECUV1H150JCX	S.M.CAP	50V	15pF	
C611	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C612	ECUV1H332ZFX	S.M.CAP	50V	3.3nF	
C613	ECUV1C474ZFX	S.M.CAP	16V	0.47μF	
C614	ECUV1H332ZFX	S.M.CAP	50V	3.3nF	
C615	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C616	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C617	ECA1CM220GB	ELECT	16V	22μF	
C618	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C619	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C620	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C621	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C622	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C623	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C624	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C625	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C626	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C627	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C628	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C629	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C630	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C631	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C632	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C633	ECUV1H470JCX	S.M.CAP	50V	47pF	
C634	ECA1CM221GB	ELECT	16V	220pF	
C635	ECA1HM220GB	ELECT	50V	22pF	
C636	ECA1HM010GB	ELECT	50V	1pF	
C637	ECQM1H224J	FILM	50V	220nF	
C638	ECA1HM010GB	ELECT	50V	1pF	
C639	ECQM1H224J	FILM	50V	220nF	
C640	ECQM1H224J	FILM	50V	220nF	

Ref No.	Part No.	Description			
C641	ECQM1H224J	FILM	50V	220nF	
C642	ECA1AM470GB	ELECT	10V	47pF	
C643	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C644	ECA1CM470GB	ELECT	16V	47μF	
C645	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C646	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C647	ECEA1CN470	ELECT	16V	47μF	
C648	ECEA1CN470	ELECT	16V	47μF	
C651	ECUV1H820JCX	S.M.CAP	50V	82pF	
C654	ECUV1H393KBX	S.M.CAP	50V	39nF	
C655	ECUV1E563KBX	S.M.CAP	25V	56nF	
C657	ECUV1C474ZFX	S.M.CAP	16V	0.47μF	
C659	ECUV1H821KBX	S.M.CAP	50V	820pF	
C661	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C662	ECUV1H470JCX	S.M.CAP	50V	47pF	
C663	ECUV1H150JCX	S.M.CAP	50V	15pF	
C703	ECUV1C224KBX	S.M.CAP	16V	220nF	
C752	ECKC2H103J	CERAMIC	50V	10nF	⚠
C803	ECQE2A474MWB	FILM	100V	0.47μF	
C804	222233510154	CERAMIC		0.15μF	
C806	ECQE6104K	FILM	600V	100nF	⚠
C807	ECQB1H473K	FILM	50V	47nF	
C808	ECQB1H333J	FILM	50V	33nF	
C810	222233510154	CERAMIC		0.15μF	
C811	ECQB1H104J	FILM	50V	100nF	
C812	ECQB1H222J	FILM	50V	2200pF	
C813	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C814	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C815	ECA1CM331B	ELECT	16V	330pF	
C816	ECQB1H122J	FILM	50V	1.2nF	
C817	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C818	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C821	ECQB1H222J	FILM	50V	2200pF	
C822	ECKC3D102J	CERAMIC	2KV	1nF	⚠
C823	EEUFA1V221B	CERAMIC	35V	220pF	
C824	ECQB1H121KF3	FILM	50V	120pF	
C826	ECQB1H473K	FILM	50V	47nF	
C827	ECKCNS332J	CERAMIC	1.2KV	3.3nF	⚠
C830	ECQE4105JFW	FILM	400V	1μF	
C831	ECKC3D471JB	CERAMIC	2KV	470pF	⚠
C833	ECQB1H682K	FILM	50V	6.8nF	
C834	ECQB1H471KF3	FILM	50V	470pF	
C835	ECQB1H152K	FILM	50V	1.5nF	
C849	ECKC2H471J	CERAMIC	500V	470pF	⚠
C851	ECQM1H104J	FILM	50V	100nF	
C852	ECKC3D102J	CERAMIC	2KV	1nF	⚠
C853	ECA1CM471GB	ELECT	16V	470pF	
C854	ECA1EM471GB	ELECT	25V	470pF	
C855	ECEA1HU102	ELECT	50V	1000μF	
C856	ECEA1HU471	ELECT	50V	470μF	
C857	ECA1EM471GB	ELECT	25V	470pF	
C858	ECOS2EA271BB	ELECT	250V	270pF	
C859	ECKC2H471J	CERAMIC	500V	470pF	⚠
C861	ECOS2EA221AB	ELECT	250V	220μF	
C863	ECA1EM222GB	ELECT	25V	2.2nF	
C864	ECA0JM102GB	ELECT	6.3V	1nF	
C866	ECA1HM101GB	ELECT	50V	100pF	
C867	ECA1CM222GB	ELECT	16V	2200μF	
C868	ECA1CM100GB	ELECT	16V	10pF	
C871	ECA0JM102GB	ELECT	6.3V	1nF	
C872	ECA1CM222GB	ELECT	16V	2200μF	
C901	ECUV1H030CCX	S.M.CAP	50V	30pF	
C902	ECA1VM101GB	ELECT	35V	100pF	
C903	ECA1CM470GB	ELECT	16V	47μF	
C904	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C905	ECA1CM100GB	ELECT	16V	10pF	
C906	ECUV1H151JCX	S.M.CAP	50V	150pF	
C908	ECUV1H151JCX	S.M.CAP	50V	150pF	
C909	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C910	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C911	ECUV1H151JCX	S.M.CAP	50V	150pF	
C912	ECEA2EU220	ELECT	250V	22μF	
C913	ECA1HM101GB	ELECT	50V	100pF	
C914	ECA1HM101GB	ELECT	50V	100pF	
C915	ECA1CM471GB	ELECT	16V	470pF	
C916	ECEA2EU220	ELECT	250V	22μF	
C917	ECA1HM100GB	ELECT	50V	10pF	
C918	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C919	ECCR2H270J	CERAMIC	500V	27pF	
C1051	ECKC1H101J	CERAMIC	50V	100pF	
C1052	ECA1VM470B	ELECT	35V	47pF	

Ref No.	Part No.	Description			
C1053	ECKC1H103JB	CERAMIC	50V	10nF	
C1102	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1103	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1104	ECA0JM101G	ELECT	6.3V	100pF	
C1105	ECUV1H330JCX	S.M.CAP	50V	33pF	
C1106	ECUV1H330JCX	S.M.CAP	50V	33pF	
C1107	ECUV1H391JCX	S.M.CAP	50V	390pF	
C1108	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C1109	ECUV1H472KBX	S.M.CAP	50V	4.7nF	
C1110	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1111	ECUV1H101JCX	S.M.CAP	50V	100pF	
C1112	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C1113	ECUV1H102JCX	S.M.CAP	50V	1nF	
C1114	ECUV1H102JCX	S.M.CAP	50V	1nF	
C1115	ECUV1H102JCX	S.M.CAP	50V	1nF	
C1126	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1127	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1129	ECA1AM470GB	ELECT	10V	47pF	
C1130	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1131	ECUV1H101JCX	S.M.CAP	50V	100pF	
C1133	ECUV1C184KBX	S.M.CAP	16V	0.18μF	
C1134	ECUV1H103KBX	S.M.CAP	50V	10nF	
C1135	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C1136	ECUV1H101JCX	S.M.CAP	50V	100pF	
C1137	ECUV1H102KBX	S.M.CAP	50V	1nF	
C1138	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1302	ECUV1H150JCX	S.M.CAP	50V	15pF	
C1304	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C1305	ECA1HM101GB	ELECT	50V	100pF	
C1306	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1307	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1308	ECA1HM101GB	ELECT	50V	100pF	
C1309	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1310	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1311	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1312	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1313	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1314	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1315	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1316	ECA1HM101GB	ELECT	50V	100pF	
C1317	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1318	ECA1HM101GB	ELECT	50V	100pF	
C1321	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1322	ECUV1H101JCX	S.M.CAP	50V	100pF	
C1323	ECA1HM101GB	ELECT	50V	100pF	
C1324	ECA1HM101GB	ELECT	50V	100pF	
C1325	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C1326	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1327	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1508	ECUV1H103KBX	S.M.CAP	50V	10nF	
C1509	ECA1CM100GB	ELECT	16V	10pF	
C1518	ECA1HM101GB	ELECT	50V	100pF	
C1519	ECA1CM470GB	ELECT	16V	47μF	
C1520	ECA1CM470GB	ELECT	16V	47μF	
C1521	ECUV1H390JCX	S.M.CAP	50V	39pF	
C1524	ECUV1H221JCX	S.M.CAP	50V	220pF	
C1525	ECUV1H391JCX	S.M.CAP	50V	390pF	
C1528	ECUV1H390JCX	S.M.CAP	50V	39pF	
C1529	ECUV1H221JCX	S.M.CAP	50V	220pF	
C1531	ECUV1H391JCX	S.M.CAP	50V	390pF	
C1532	ECUV1H151JCX	S.M.CAP	50V	150pF	
C1533	ECUV1H750JCX	S.M.CAP	50V	75pF	
C1534	ECUV1H391JCX	S.M.CAP	50V	390pF	
C1537	ECA0JM102GB	ELECT	6.3V	1nF	
C1552	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1554	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1555	ECA0JM331GB	ELECT	6.3V	330pF	
C1556	ECUV1H270JCX	S.M.CAP	50V	27pF	
C1557	ECUV1H270JCX	S.M.CAP	50V	27pF	
C1559	ECUV1H103KBX	S.M.CAP	50V	10nF	
C1560	ECUV1H103KBX	S.M.CAP	50V	10nF	
C1561	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1562	ECA0JM331GB	ELECT	6.3V	330pF	
C1564	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1575	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1576	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1577	ECA1CM470GB	ELECT	16V	47μF	
C1579	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1580	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1583	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1584	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1585	ECUV1H104ZFX	S.M.CAP	50V	100nF	

Ref No.	Part No.	Description		
C1586	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1588	ECA1CM470GB	ELECT	16V	47μF
C1590	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1591	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1592	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1593	ECA1CM470GB	ELECT	16V	47μF
C1594	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1595	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1596	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1599	ECA1CM470GB	ELECT	16V	47μF
C1601	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1602	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1603	ECUV1H103KBX	S.M.CAP	50V	10nF
C1604	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1605	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1606	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1607	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1608	ECA1CM470GB	ELECT	16V	47μF
C1610	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1611	ECUV1H103KBX	S.M.CAP	50V	10nF
C1612	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1613	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1614	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1616	ECUV1H152JCX	S.M.CAP	50V	1.5pF
C1617	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1618	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1619	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1620	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1621	ECA1CM470GB	ELECT	16V	47μF
C1622	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1625	ECA1CM470GB	ELECT	16V	47μF
C1641	ECA1CM470GB	ELECT	16V	47μF
C1642	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1701	ECA1CM470GB	ELECT	16V	47μF
C1702	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1703	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1704	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1705	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1706	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1707	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1708	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1709	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1710	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1711	ECUV1H103KBX	S.M.CAP	50V	10nF
C1712	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1713	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1714	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1721	ECA1CM470GB	ELECT	16V	47μF
C1722	ECA1CM470GB	ELECT	16V	47μF
C1723	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1724	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1725	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1726	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1727	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1728	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1729	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1730	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1731	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1732	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1733	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1734	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1735	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1736	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1740	ECUV1H102KBX	S.M.CAP	50V	1nF
C2001	ECA1CM100GB	ELECT	16V	10pF
C2002	ECUV1H104ZFX	S.M.CAP	50V	100nF
C2003	ECUV1H104ZFX	S.M.CAP	50V	100nF
C2004	ECUV1H102JCX	S.M.CAP	50V	1nF
C2005	ECUV1H391JCX	S.M.CAP	50V	390pF
C2006	ECUV1H391JCX	S.M.CAP	50V	390pF
C2007	ECUV1H102JCX	S.M.CAP	50V	1nF
C2008	ECUV1H102JCX	S.M.CAP	50V	1nF
C2009	ECUV1H102JCX	S.M.CAP	50V	1nF
C2010	ECUV1H102JCX	S.M.CAP	50V	1nF
C2011	ECUV1H102JCX	S.M.CAP	50V	1nF
C2012	ECUV1H102JCX	S.M.CAP	50V	1nF
C2014	ECQM1H334J	FILM	50V	330nF
C2017	ECA1CM100GB	ELECT	16V	10pF
C2018	ECA1CM100GB	ELECT	16V	10pF
C2019	ECA1CM221GB	ELECT	16V	220pF
C2020	ECUV1H104ZFX	S.M.CAP	50V	100nF
C2021	ECUV1H104ZFX	S.M.CAP	50V	100nF

Ref No.	Part No.	Description		
C2022	ECA1HM3R3GB	ELECT	50V	3.3μF
C2023	ECUV1H471JCX	S.M.CAP	50V	470pF
C2024	ECUV1H471JCX	S.M.CAP	50V	470pF
C2025	ECUV1H221JCX	S.M.CAP	50V	220pF
C2026	ECUV1H221JCX	S.M.CAP	50V	220pF
C2027	ECUV1H221JCX	S.M.CAP	50V	220pF
C2028	ECUV1H221JCX	S.M.CAP	50V	220pF
C2029	ECUV1H221JCX	S.M.CAP	50V	220pF
C2030	ECUV1H221JCX	S.M.CAP	50V	220pF
C2031	ECUV1H104ZFX	S.M.CAP	50V	100nF
C2032	ECA1CM100GB	ELECT	16V	10pF
C2034	ECUV1H070DCX	S.M.CAP	50V	7pF
C2035	ECUV1H560JCX	S.M.CAP	50V	56pF
C2036	ECUV1H100DCX	S.M.CAP	50V	10pF
C2037	ECUV1H220JCX	S.M.CAP	50V	22pF
C2039	ECUV1H070DCX	S.M.CAP	50V	7pF
C2040	ECUV1H560JCX	S.M.CAP	50V	56pF
C2041	ECUV1H560JCX	S.M.CAP	50V	56pF
C2042	ECUV1H104ZFX	S.M.CAP	50V	100nF
C2043	ECA1CM100GB	ELECT	16V	10pF
C2044	ECUV1H010CCX	S.M.CAP	50V	1pF
C2045	ECUV1H010CCX	S.M.CAP	50V	1pF
C2050	ECUV1H223ZFX	S.M.CAP	50V	22nF
C2051	ECUV1H223ZFX	S.M.CAP	50V	22nF
C2052	ECUV1H103ZFX	S.M.CAP	50V	10nF
C2053	ECUV1H103ZFX	S.M.CAP	50V	10nF
C2054	ECA1CM331B	ELECT	16V	330pF
C2055	ECA1CM331B	ELECT	16V	330pF
C2058	ECUV1H683ZFX	S.M.CAP	50V	68nF
C2059	ECUV1H102KBX	S.M.CAP	50V	1nF
C2060	ECUV1H102KBX	S.M.CAP	50V	1nF
C2351	ECA1CM471GB	ELECT	16V	470pF
C2352	ECA1CM471GB	ELECT	16V	470pF
C2353	ECA1HM4R7GB	ELECT	50V	4.7μF
C2354	ECKC1H103JB	CERAMIC	50V	10nF
C2355	ECA1HMR33GB	ELECT	50V	0.33μF
C2356	ECKC1H103JB	CERAMIC	50V	10nF
C2360	ECKC1H103JB	CERAMIC	50V	10nF
C2361	ECA1CM471GB	ELECT	16V	470pF
C2362	ECA1CM471GB	ELECT	16V	470pF
C2363	ECA1HM4R7GB	ELECT	50V	4.7μF
C2364	ECKC1H103JB	CERAMIC	50V	10nF
C2365	ECA1HMR33GB	ELECT	50V	0.33μF
C2366	ECKC1H103JB	CERAMIC	50V	10nF
C3001	ECKC1H561J	CERAMIC	50V	560pF
C3002	ECKC1H561J	CERAMIC	50V	560pF
C3005	ECCR1H151J	CERAMIC	50V	150pF
C3101	ECEA1HN4R7UB	ELECT	50V	4.7μF
C3102	ECA1HM470GB	ELECT	50V	47μF
C3103	ECA1CM470GB	ELECT	16V	47μF
C3106	ECUV1H561JCX	S.M.CAP	50V	560pF
C3107	ECA1HM470GB	ELECT	50V	47μF
C3108	ECA1CM470GB	ELECT	16V	47μF
C3110	ECUV1H561JCX	S.M.CAP	50V	560pF
C3111	ECUV1H102JCX	S.M.CAP	50V	1nF
C3112	ECA1HM470GB	ELECT	50V	47μF
C3113	ECA1HM470GB	ELECT	50V	47μF
C3114	ECA1CM470GB	ELECT	16V	47μF
C3115	ECEA1HNR47UB	ELECT	50V	0.47μF
C3116	ECA1HM470GB	ELECT	50V	47μF
C3117	ECEA1HN4R7UB	ELECT	50V	4.7μF
C3118	ECEA1HN4R7UB	ELECT	50V	4.7μF
C3119	ECA1HM470GB	ELECT	50V	47μF
C3120	ECA1CM470GB	ELECT	16V	47μF
C3122	ECUV1H561JCX	S.M.CAP	50V	560pF
C3123	ECEA1HN4R7UB	ELECT	50V	4.7μF
C3125	ECUV1H561JCX	S.M.CAP	50V	560pF
C3126	ECEA1HN4R7UB	ELECT	50V	4.7μF
C3127	ECEA1HN4R7UB	ELECT	50V	4.7μF
C3128	ECEA1HN4R7UB	ELECT	50V	4.7μF
C3129	ECUV1H102JCX	S.M.CAP	50V	1nF
C3130	ECEA1HN4R7UB	ELECT	50V	4.7μF
C3131	ECUV1H473KBX	S.M.CAP	50V	47nF
C3132	ECA1CM470GB	ELECT	16V	47μF
C3133	ECA1CM470GB	ELECT	16V	47μF
C3134	ECA1CM470GB	ELECT	16V	47μF
C3135	ECA1HMR47GB	ELECT	50V	0.47μF
C3136	ECA1CM470GB	ELECT	16V	47μF
C3137	ECA1HM470GB	ELECT	50V	47μF
C3138	ECA1HM470GB	ELECT	50V	47μF
C3139	ECUV1H222JCX	S.M.CAP	50V	2.2nF
C3140	ECUV1H222JCX	S.M.CAP	50V	2.2nF

Ref No.	Part No.	Description			
C3144	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3145	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3147	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3148	ECA1HM4R7GB	ELECT	50V	4.7μF	
C3150	ECA1HM4R7GB	ELECT	50V	4.7μF	
C3152	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3154	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3156	ECA1CM470GB	ELECT	16V	47μF	
C3158	ECUV1H102JCX	S.M.CAP	50V	1nF	
C3160	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3162	ECA1CM471GB	ELECT	16V	470pF	
C3163	ECA1HMR47GB	ELECT	50V	0.47μF	
C3165	ECA1HM470GB	ELECT	50V	47μF	
C3167	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3168	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3169	ECUV1H102JCX	S.M.CAP	50V	1nF	
C3173	ECA1HMR47GB	ELECT	50V	0.47μF	
C3175	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3177	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3180	ECA1HMR47GB	ELECT	50V	0.47μF	
C3181	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
C3182	ECUV1H102JCX	S.M.CAP	50V	1nF	
C3183	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
C3184	ECUV1H473KBX	S.M.CAP	50V	47nF	
C3185	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
C3186	ECEA1HNR47UB	ELECT	50V	0.47μF	
C3187	ECA1HM470GB	ELECT	50V	47μF	
C3188	ECEA1CN470	ELECT	16V	47μF	
C3189	ECEA1CN470	ELECT	16V	47μF	
C3190	ECA1HMR47GB	ELECT	50V	0.47μF	
C3191	ECA1HM470GB	ELECT	50V	47μF	
C3192	ECUV1H473KBX	S.M.CAP	50V	47nF	
C3193	ECUV1H473KBX	S.M.CAP	50V	47nF	
C3194	ECA1HM470GB	ELECT	50V	47μF	
C3201	ECA1HM010GB	ELECT	50V	1pF	
C3202	ECUV1H473ZFX	S.M.CAP	50V	47nF	
C3203	ECA1CM100GB	ELECT	16V	10pF	
C3204	ECUV1H473ZFX	S.M.CAP	50V	47nF	
C3351	ECA1HM101GB	ELECT	50V	100pF	
C3501	ECUV1H220JCX	S.M.CAP	50V	22pF	
C3502	ECUV1H220JCX	S.M.CAP	50V	22pF	
C3503	ECEA1HKN010	ELECT	50V	1μF	
C3504	ECUV1H224ZFX	S.M.CAP	50V	0.22μF	
C3510	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C3511	ECA1HM101GB	ELECT	50V	100pF	
C3512	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3514	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3515	ECA0JM331GB	ELECT	6.3V	330pF	
C3516	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3521	ECA1HM101GB	ELECT	50V	100pF	
C3522	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3801	ECA1HM010GB	ELECT	50V	1pF	
C3802	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3803	ECA1CM471GB	ELECT	16V	470pF	
C3807	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3808	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3809	ECA0JM101G	ELECT	6.3V	100pF	
C3810	ECUV1H103KBX	S.M.CAP	50V	10nF	
C3812	ECA1CM221GB	ELECT	16V	220pF	

DIODES

D001	MA4020	DIODE
D002	MA4020	DIODE
D103	BA582	DIODE
D104	BA582	DIODE
D251	MA165TA5	DIODE 1SS133T−77
D252	MA165TA5	DIODE 1SS133T−77
D253	MA165TA5	DIODE 1SS133T−77
D254	MA165TA5	DIODE 1SS133T−77
D351	ERA15−04V3	COIL
D352	ERA15−04V3	COIL
D361	ERA15−04V3	COIL
D362	ERA15−04V3	COIL
D371	ERA15−04V3	COIL
D372	ERA15−04V3	COIL
D387	MA2160LFS	DIODE
D451	MA4056	DIODE
D452	MA2330−ALF	DIODE
D453	TVSEM01ZV0	DIODE
D457	1SS252T−77	DIODE

Ref No.	Part No.	Description
D502	1SS254T−77	DIODE
D503	EU02	DIODE
D504	EU02	DIODE
D531	1SS254T−77	DIODE
D532	1SS254T−77	DIODE
D533	1SS254T−77	DIODE
D551	EU02	DIODE
D556	AU02V0	DIODE
D557	ERC91−02L9	DIODE
D558	AU02V0	DIODE
D559	MTZJT−7736A	DIODE
D560	1SS252T−77	DIODE
D561	1SS254T−77	DIODE
D563	RH3GLF102	DIODE
D571	FMV−3GULF027	DIODE
D572	RU3NLFA1	DIODE
D573	1SS254T−77	DIODE
D574	1SS252T−77	DIODE
D575	1SS252T−77	DIODE
D602	MA165TA5	DIODE 1SS133T−77
D603	MA165TA5	DIODE 1SS133T−77
D604	MA4062	DIODE
D706	MA165TA5	DIODE 1SS133T−77
D707	MA188TA	DIODE
D803	MTZJT−7711C	DIODE
D806	TF361MALF3	DIODE
D807	RBV−608LF−B	DIODE
D808	1SS254T−77	DIODE
D809	ERA22−02V3	DIODE
D810	MA2160LFS	DIODE
D812	MTZJT−775.6B	DIODE
D813	MA700TA5	DIODE
D814	AU01ZV0	DIODE
D815	PC123FY2	DIODE
D817	D5L60F4015	DIODE
D818	TMPG10G3	DIODE
D819	ERA81004V3	DIODE
D820	MA4100	DIODE
D821	EU02AV0	DIODE
D822	MTZJT−7718C	DIODE
D845	1SS254T−77	DIODE
D846	TVSS1WBS20	DIODE
D847	ERA15−01V1	DIODE
D849	FMGG26S	DIODE
D850	EU02	DIODE
D851	FMGG2CS	DIODE
D853	1SS254T−77	DIODE
D854	1SS254T−77	DIODE
D855	D10SC6MRL	DIODE
D857	FML22SLF610	DIODE
D860	1SS254T−77	DIODE
D861	MTZJT−7713B	DIODE
D901	1SS254T−77	DIODE
D902	1SS254T−77	DIODE
D903	1SS254T−77	DIODE
D1051	LN81RPHL	DIODE
D1056	AU01V0	DIODE
D1057	AU01V0	DIODE
D1102	MA4051	DIODE
D1107	MTZJT−775.6A	DIODE
D1108	1SS254T−77	DIODE
D1109	1SS254T−77	DIODE
D1113	MA4051	DIODE
D1552	RLS72TE−11	DIODE OR PMLL4148
D2005	MA723TA5	DIODE
D2006	MA723TA5	DIODE
D3101	PMLL5242B	DIODE
D3102	PMLL5242B	DIODE
D3103	PMLL5242B	DIODE
D3104	PMLL5242B	DIODE
D3105	PMLL5242B	DIODE
D3107	PMLL5242B	DIODE
D3108	PMLL5242B	DIODE
D3109	PMLL5242B	DIODE
D3110	PMLL5242B	DIODE
D3111	PMLL5242B	DIODE
D3112	PMLL5242B	DIODE
D3115	PMLL5242B	DIODE
D3117	PMLL5242B	DIODE
D3120	RLS72TE−11	DIODE OR PMLL4148
D3121	RLS72TE−11	DIODE OR PMLL4148

Ref No.	Part No.	Description
D3351	1SS254T−77	DIODE
D3501	MA4030	DIODE
D3801	MA4043	DIODE
D3802	MTZJT−778.2A	DIODE
D3803	ERA81004V3	DIODE
D3805	MA4091	DIODE
D3806	MA165TA5	DIODE 1SS133T−77
D3807	MA165TA5	DIODE 1SS133T−77

FUSES

F531	TR5−T1000	FUSE	⚠
F801	XBA2C50TH15	FUSE	
F845	TR5−T2000	FUSE	⚠
F846	TR5−T1250	FUSE	⚠
F8011	EYF52BC	FUSE HOLDER	
F8012	EYF52BC	FUSE HOLDER	

TERMINALS AND LINKS

JA2	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JA3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JA5	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JA6	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JA7	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JA8	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JA9	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JK3001	TJB16656	A.V.TERMINAL			
JSB3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE010	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE011	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE012	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE015	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE02	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE022	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE023	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE024	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE025	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE028	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE042	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE050	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE056	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE057	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE058	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE062	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE064	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE066	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSE09	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF001	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF002	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF004	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF005	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF015	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF026	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF038	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF040	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF041	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF045	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF046	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF049	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF050	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF054	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF056	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF059	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF061	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSF062	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSH004	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSH005	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSH01	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSH010	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
JSH02	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω

COILS

LC1503	ELKTR391CA	DELAY LINE
LC1507	EXCEMT103DTM	COIL
LC1508	EXCEMT103DTM	COIL
LC1509	EXCEMT103DTM	COIL
LC1510	EXCEMT103DTM	COIL

Ref No.	Part No.	Description
LC1601	ELKTR391CA	DELAY LINE
LC1602	ELKTR391CA	DELAY LINE
LC1603	ELKTR391CA	DELAY LINE
LC1609	ELKTR560BA	DELAY LINE
L002	TLT047K991R	COIL
L004	TLT047K991R	COIL
L005	TLT047K991R	COIL
L102	TLT056K991R	COIL
L103	EQV7EN203B	COIL
L105	ELESNR22MA	COIL
L107	ELESNR22MA	COIL
L108	ELESNR22MA	COIL
L109	EIL7EN015Q	COIL
L110	EQL7EN022Q	COIL
L113	EIL7EN015Q	COIL
L252	EXCELSA35T	COIL
L253	EXCELSA35T	COIL
L254	EXCELSA35T	COIL
L255	EXCELSA35T	COIL
L351	SDL5000	DELAY LINE
L352	EXCELDR25V	COIL
L353	TLT150K991R	COIL
L361	SDL5000	DELAY LINE
L362	EXCELDR25V	COIL
L363	TLT150K991R	COIL
L371	SDL5000	DELAY LINE
L372	EXCELDR25V	COIL
L373	TLT150K991R	COIL
L381	TLT220K991R	COIL
L401	EXCELDR35V	COIL
L402	EXCELDR35V	COIL
L451	EXCELDR35V	COIL
L552	EXCELSA35T	COIL
L553	EXCELSA35T	COIL
L554	EXCELDR35V	COIL
L555	EXCELDR35C	COIL
L571	ELC18B801L	COIL
L572	ELHKLB025B	COIL
L575	ELC18B331E	COIL
L576	ELC08D101E	COIL
L601	TLT047K991R	COIL
L602	TLT047K991R	COIL
L603	TLT047K991R	COIL
L605	ERD25TC0T	CARBON 0.25W 5% 0Ω
L801	ELF18D486D	COIL
L802	ELF18D486D	COIL
L807	ELF18D856A	COIL
L808	EXCELSA35T	COIL
L809	EXCELDR35C	COIL
L810	EXCELSA39V	COIL
L811	EXCELSA39V	COIL
L812	EXCELDR35V	COIL
L813	EXCELDR35V	COIL
L817	EXCELDR35V	COIL
L845	EXCELSA35T	COIL
L847	EXCELSA35B	COIL
L848	EXCELSA35T	COIL
L850	EXCELSA35T	COIL
L851	EXCELSA35B	COIL
L854	ELEIE150KA	COIL
L856	EXCELSA35T	COIL
L859	EXCELSA35T	COIL
L860	EXCELSA35T	COIL
L861	EXCELSA35T	COIL
L862	EXCELSA35T	COIL
L864	EXCELDR35V	COIL
L1102	EXCELDR35V	COIL
L1103	EXCELDR35V	COIL
L1104	EXCELSA35T	COIL
L1105	ELEXT4R7KA	COIL
L1301	TLT330K991R	COIL
L1302	TLT100K991R	COIL
L1303	TLT101K991R	COIL
L1304	TLT100K991R	COIL
L1306	TLT101K991R	COIL
L1307	ERD25TC0T	CARBON 0.25W 5% 0Ω
L1501	EXCELDR35V	COIL
L1502	TLT033K991R	COIL
L1503	TLT033K991R	COIL
L1504	TLT033K991R	COIL
L1552	EXCELDR35V	COIL

Ref No.	Part No.	Description
L1553	EXCELDR35V	COIL
L1575	EXCELDR35V	COIL
L1576	EXCELDR35V	COIL
L1601	EXCELDR35V	COIL
L1602	EXCELDR35V	COIL
L1603	TLT100K991R	COIL
L1604	TLT100K991R	COIL
L1605	TLT100K991R	COIL
L1606	TLT100K991R	COIL
L1607	EXCELDR35V	COIL
L1641	EXCELDR35V	COIL
L1701	EXCELDR35V	COIL
L1721	EXCELDR35V	COIL
L1722	EXCELDR35V	COIL
L2001	TLT047K991R	COIL
L2003	EXCELDR35V	COIL
L2004	TLT068K991R	COIL
L2005	TLT068K991R	COIL
L2351	ELEBR6R8KA	COIL
L2361	ELEBR6R8KA	COIL
L3001	ELEBR6R8KA	COIL
L3002	ELEBR6R8KA	COIL
L3003	ELEBR470KA	COIL
L3101	ELEMV1R5MA	COIL
L3102	ELEMV1R5MA	COIL
L3103	ELEMV1R5MA	COIL
L3104	ELEMV1R5MA	COIL
L3107	ELEMV1R5MA	COIL
L3108	ELEMV1R5MA	COIL
L3109	ELEMV1R5MA	COIL
L3110	ELEMV1R5MA	COIL
L3111	ELEMV1R5MA	COIL
L3112	ELEMV1R5MA	COIL
L3113	ELEMV1R5MA	COIL
L3114	ELEMV1R5MA	COIL
L3503	EXCELDR35V	COIL
L3507	EXCELDR35V	COIL
L3509	EXCELDR35V	COIL
L3511	TLT100K991R	COIL

TRANSISTORS

Q008	BC847B	TRANSISTOR OR 2SD601ATX
Q101	BC847B	TRANSISTOR OR 2SD601ATX
Q102	BC847B	TRANSISTOR OR 2SD601ATX
Q103	BC847B	TRANSISTOR OR 2SD601ATX
Q104	BC847B	TRANSISTOR OR 2SD601ATX
Q105	BC847B	TRANSISTOR OR 2SD601ATX
Q106	BF799E6327	CHIP TRANSISTOR
Q107	BC847B	TRANSISTOR OR 2SD601ATX
Q108	BC847B	TRANSISTOR OR 2SD601ATX
Q109	BC860B	TRANSISTOR
Q251	BC847B	TRANSISTOR OR 2SD601ATX
Q252	BC847B	TRANSISTOR OR 2SD601ATX
Q401	BC847B	TRANSISTOR OR 2SD601ATX
Q502	2SC2925STA	TRANSISTOR
Q531	BC547B	TRANSISTOR
Q532	BC547B	TRANSISTOR
Q533	BC547B	TRANSISTOR
Q535	BC547B	TRANSISTOR
Q551	BC547B	TRANSISTOR
Q552	2SC5144LBMA1	TRANSISTOR
Q553	2SC1473−RN	TRANSISTOR
Q554	2SC1473−RN	TRANSISTOR
Q572	BC547B	TRANSISTOR
Q573	BC557B	TRANSISTOR
Q574	2SD1265AOPLB	TRANSISTOR
Q601	BC847B	TRANSISTOR OR 2SD601ATX
Q602	BC857B	TRANSISTOR OR 2SB709ATX
Q603	BC847B	TRANSISTOR OR 2SD601ATX
Q604	BC857B	TRANSISTOR OR 2SB709ATX
Q605	BC857B	TRANSISTOR OR 2SB709ATX
Q607	BC847B	TRANSISTOR OR 2SD601ATX
Q608	BC847B	TRANSISTOR OR 2SD601ATX
Q609	BC847B	TRANSISTOR OR 2SD601ATX
Q610	BC847B	TRANSISTOR OR 2SD601ATX
Q611	BC847B	TRANSISTOR OR 2SD601ATX
Q612	BC847B	TRANSISTOR OR 2SD601ATX
Q801	2SK1489MAT	TRANSISTOR
Q803	2SD965−R	TRANSISTOR
Q804	2SA719−TA	TRANSISTOR

Ref No.	Part No.	Description
Q845	2SA684R	TRANSISTOR
Q846	BC547B	TRANSISTOR
Q847	BC557B	TRANSISTOR
Q848	BC547B	TRANSISTOR
Q849	2SA1018QTA	TRANSISTOR
Q850	2SD1474PLB	TRANSISTOR
Q851	BC547B	TRANSISTOR
Q852	BC547B	TRANSISTOR
Q901	BC847B	TRANSISTOR OR 2SD601ATX
Q902	BC847B	TRANSISTOR OR 2SD601ATX
Q903	BC847B	TRANSISTOR OR 2SD601ATX
Q904	BC857B	TRANSISTOR OR 2SB709ATX
Q905	BC847B	TRANSISTOR OR 2SD601ATX
Q906	BC847B	TRANSISTOR OR 2SD601ATX
Q907	BC857B	TRANSISTOR OR 2SB709ATX
Q908	2SA1535ARLB	TRANSISTOR
Q909	2SC3944ARLB	TRANSISTOR
Q1052	BC557B	TRANSISTOR
Q1101	BC847B	TRANSISTOR OR 2SD601ATX
Q1102	BC847B	TRANSISTOR OR 2SD601ATX
Q1103	BC847B	TRANSISTOR OR 2SD601ATX
Q1106	BC847B	TRANSISTOR OR 2SD601ATX
Q1107	BC847B	TRANSISTOR OR 2SD601ATX
Q1108	BC847B	TRANSISTOR OR 2SD601ATX
Q1112	2SC3757QRTX	TRANSISTOR
Q1191	BC847B	TRANSISTOR OR 2SD601ATX
Q1301	BC847B	TRANSISTOR OR 2SD601ATX
Q1303	BC847B	TRANSISTOR OR 2SD601ATX
Q1304	BC847B	TRANSISTOR OR 2SD601ATX
Q1501	BC847B	TRANSISTOR OR 2SD601ATX
Q1502	BC847B	TRANSISTOR OR 2SD601ATX
Q1503	BC847B	TRANSISTOR OR 2SD601ATX
Q1575	BC847B	TRANSISTOR OR 2SD601ATX
Q1642	BC847B	TRANSISTOR OR 2SD601ATX
Q1643	BC847B	TRANSISTOR OR 2SD601ATX
Q1644	BC857B	TRANSISTOR OR 2SB709ATX
Q1647	BC847B	TRANSISTOR OR 2SD601ATX
Q1648	BC857B	TRANSISTOR OR 2SB709ATX
Q1649	BC857B	TRANSISTOR OR 2SB709ATX
Q2001	BC860B	TRANSISTOR
Q2002	BC860B	TRANSISTOR
Q2003	BC860B	TRANSISTOR
Q2004	BC860B	TRANSISTOR
Q2006	BC857B	TRANSISTOR OR 2SB709ATX
Q2007	BC847B	TRANSISTOR OR 2SD601ATX
Q2351	BC547B	TRANSISTOR
Q2352	BC547B	TRANSISTOR
Q2353	BC557B	TRANSISTOR
Q2361	BC547B	TRANSISTOR
Q2362	BC547B	TRANSISTOR
Q2363	BC557B	TRANSISTOR
Q3101	BC847B	TRANSISTOR OR 2SD601ATX
Q3102	BC847B	TRANSISTOR OR 2SD601ATX
Q3103	BC847B	TRANSISTOR OR 2SD601ATX
Q3104	BC847B	TRANSISTOR OR 2SD601ATX
Q3105	BC847B	TRANSISTOR OR 2SD601ATX
Q3106	BC847B	TRANSISTOR OR 2SD601ATX
Q3107	BC857B	TRANSISTOR OR 2SB709ATX
Q3108	BC847B	TRANSISTOR OR 2SD601ATX
Q3113	BC847B	TRANSISTOR OR 2SD601ATX
Q3114	BC847B	TRANSISTOR OR 2SD601ATX
Q3115	BC857B	TRANSISTOR OR 2SB709ATX
Q3201	BC847B	TRANSISTOR OR 2SD601ATX
Q3351	BC847B	TRANSISTOR OR 2SD601ATX
Q3352	BC857B	TRANSISTOR OR 2SB709ATX
Q3501	BC847B	TRANSISTOR OR 2SD601ATX
Q3502	BC847B	TRANSISTOR OR 2SD601ATX
Q3503	2SC3130TX	TRANSISTOR
Q3801	2SD1474PLB	TRANSISTOR

RESISTOR

RL571	TSEH8012	RELAY			
RL806	TSE1885−1	RELAY			
R003	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ
R006	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KΩ
R011	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R012	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R101	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R102	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R103	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ

Ref No.	Part No.	Description				
R104	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R105	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω	
R106	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68Ω	
R107	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KΩ	
R109	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R110	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R111	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω	
R113	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R115	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120Ω	
R117	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68KΩ	
R118	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R119	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R120	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ	
R121	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω	
R122	EVNDXAA03B24	CONTROL			20KΩ	
R123	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R124	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ	
R125	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R126	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ	
R127	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ	
R128	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180Ω	
R130	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R132	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2Ω	
R133	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2Ω	
R134	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R135	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R136	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2Ω	
R137	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R138	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2Ω	
R139	ERJ6GEYJ154	S.M.CARB	0.1W	5%	150KΩ	
R141	ERJ6GEYJ330	S.M.CARB	0.1W	5%	33Ω	
R142	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270Ω	
R143	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KΩ	
R144	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5Ω	
R145	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω	
R146	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R147	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2Ω	
R148	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KΩ	
R149	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8Ω	
R150	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω	
R151	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R152	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R154	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R156	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R157	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R159	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R251	ERJ6GEYJ2R2	SM.CARB	0.125W	5%	2R2Ω	
R252	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27KΩ	
R253	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R254	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ	
R255	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω	
R256	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R257	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R258	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R259	ERG3SJS120	METAL	3W	5%	12Ω	⚠
R260	ERJ6GEYJ2R2	SM.CARB	0.125W	5%	2R2Ω	
R261	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27KΩ	
R262	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ	
R263	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω	
R264	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R265	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R266	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R267	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390Ω	
R268	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390Ω	
R269	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R270	ERG3SJS120	METAL	3W	5%	12Ω	⚠
R351	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R352	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R355	ERG2FJ823	METAL	2W	5%	82KΩ	⚠
R356	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R357	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2Ω	
R358	ERDS1TJ821	CARBON	0.5W	5%	820Ω	
R359	ERJ6GEYJ334	S.M.CARB	0.1W	5%	330KΩ	
R360	ERDS1TJ103	CARBON	0.5W	5%	10KΩ	
R361	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R362	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R364	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R365	ERG2FJ823	METAL	2W	5%	82KΩ	⚠
R366	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R367	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2Ω	

Ref No.	Part No.	Description				
R368	ERDS1TJ821	CARBON	0.5W	5%	820Ω	
R369	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R371	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R372	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R374	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R375	ERG2FJ823	METAL	2W	5%	82KΩ	⚠
R376	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R377	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2Ω	
R378	ERDS1TJ821	CARBON	0.5W	5%	820Ω	
R379	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R380	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R381	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560Ω	
R383	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6Ω	
R384	ERQ12HJ101	FUSIBLE	0.5W	5%	100Ω	⚠
R390	ERDS1TJ184	CARBON	0.5W	5%	180K	
R401	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R402	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω	
R403	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω	
R406	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KΩ	
R407	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R408	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R409	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R410	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω	
R411	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KΩ	
R412	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R451	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K0Ω	
R452	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KΩ	
R453	ERG2FJ820	METAL	2W	5%	82Ω	⚠
R454	ERX12SJ1R0	RESISTOR	12W	5%	1R0Ω	
R455	ERX12SJ1R2	RESISTOR	12W	5%	1R2Ω	
R456	ERDS1TJ220	CARBON	0.5W	5%	22Ω	
R457	ERDS1TJ223	CARBON	0.5W	5%	22KΩ	
R458	ERG1SJ272	METAL	1W	5%	2K7Ω	⚠
R459	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KΩ	
R460	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R461	ERJ6GEYJ184	S.M.CARB	0.1W	5%	180KΩ	
R504	ERD25TJ271	CARBON	0.25W	5%	270Ω	
R505	ERG3SJS330	METAL	3W	5%	33Ω	⚠
R506	ERDS1TJ152	CARBON	0.5W	5%	1K5Ω	
R507	ERDS1TJ152	CARBON	0.5W	5%	1K5Ω	
R531	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R532	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R533	ERD25TJ683	CARBON	0.25W	5%	68KΩ	
R534	ERD25TJ473	CARBON	0.25W	5%	47KΩ	
R535	ERD25TJ472	CARBON	0.25W	5%	4K7Ω	
R536	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R539	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R540	ERD25TJ183	CARBON	0.25W	5%	18KΩ	
R541	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R542	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R543	ERD25TJ222	CARBON	0.25W	5%	2K2Ω	
R547	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R551	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R552	ERD25TJ473	CARBON	0.25W	5%	47KΩ	
R553	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R554	ERX3SJSR27H	RESISTOR	3W	5%	R27Ω	
R556	ERO50PKF2802	METAL	50W	1%	28KΩ	⚠
R559	ERO25CKF1002	METAL	0.25W	1%	10KΩ	⚠
R560	ERD25TJ222	CARBON	0.25W	5%	2K2Ω	
R562	ERD25TJ473	CARBON	0.25W	5%	47KΩ	
R564	ERDS1TJ394	CARBON	0.5W	5%	390KΩ	
R565	ERQ14AJW2R2	FUSIBLE	14W	5%	2R2Ω	⚠
R566	ERDS1TJ183	CARBON	0.5W	5%	18KΩ	
R567	ERG2ANJ223	METAL	2W	5%	22KΩ	
R568	ERQ12HJ330	METAL	0.5W	5%	33Ω	⚠
R569	ERDS1TJ120	CARBON	0.5W	5%	12Ω	
R570	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R571	ERX3FJ2R7H	RESISTOR	3W	5%	2R7Ω	
R572	ERG3FJ821	METAL	3W	5%	820Ω	⚠
R577	ERD25TJ683	CARBON	0.25W	5%	68KΩ	
R578	ERD25TJ153	CARBON	0.25W	5%	15KΩ	
R579	ERD25TJ274	CARBON	0.25W	5%	270KΩ	
R580	ERD25TJ563	CARBON	0.25W	5%	56KΩ	
R581	ERD25TJ104	CARBON	0.25W	5%	100KΩ	
R582	ERD25TJ225	CARBON	0.25W	5%	2M2Ω	
R583	ERD25TJ225	CARBON	0.25W	5%	2M2Ω	
R584	ERD25TJ152	CARBON	0.25W	5%	1K5Ω	
R585	TSF19201	FS LINK				⚠
R587	ERD25TJ222	CARBON	0.25W	5%	2K2Ω	
R588	ERD25TJ222	CARBON	0.25W	5%	2K2Ω	

Ref No.	Part No.	Description				
R589	ERDS1TJ100	CARBON	0.5W	5%	10Ω	
R601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R602	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R603	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R604	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R605	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R606	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R609	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R610	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82KΩ	
R612	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω	
R613	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω	
R615	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82KΩ	
R616	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R617	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R618	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω	
R619	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R620	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R621	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R624	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R625	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KΩ	
R626	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R627	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R628	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R629	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R630	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω	
R632	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KΩ	
R633	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R634	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R635	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R636	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R637	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω	
R639	EVNDXAA03B32	CONTROL			300Ω	
R640	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R643	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R644	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R645	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270Ω	
R646	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R647	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R648	ERJ6GEYJ150	S.M.CARB	0.1W	5%	15Ω	
R649	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R651	ERJ6GEYJ225	SM.CARB	0.125W	5%	2M2Ω	
R652	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R653	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R654	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R655	ERJ6GEYJ243	SM.CARB	0.125W	5%	24KΩ	
R656	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R657	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R658	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R659	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R660	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R661	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R662	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R663	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R664	ERC14GJ206V	SOLID	14W	5%	20MΩ	
R665	ERC14GJ206V	SOLID	14W	5%	20MΩ	
R711	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220KΩ	
R712	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ	
R714	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8Ω	
R715	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R716	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R717	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R718	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R753	ERD25TJ333	CARBON	0.25W	5%	33KΩ	
R805	232266296706	THERMISTOR				
R806	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R807	ERD25TJ104	CARBON	0.25W	5%	100KΩ	
R809	ERF10ZK4R7	WOUND	10W	5%	4R7Ω	⚠
R810	ERD25TJ223	CARBON	0.25W	5%	22KΩ	
R811	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R812	ERD25TJ681	CARBON	0.25W	5%	680Ω	
R814	ERD25TJ332	CARBON	0.25W	5%	3K3Ω	
R815	ERD25TJ150	CARBON	0.25W	5%	15Ω	
R816	ERDS1TJ470	CARBON	0.5W	5%	47Ω	
R818	ERD25TJ331	CARBON	0.25W	5%	330Ω	
R820	ERG3FJ223	METAL	3W	5%	22KΩ	⚠
R821	ERG3FJ223	METAL	3W	5%	22KΩ	⚠
R822	ERD25TJ391	CARBON	0.25W	5%	390Ω	
R823	ERX2SJR22	RESISTOR	2W	5%	R22Ω	
R824	ERX2SJR22	RESISTOR	2W	5%	R22Ω	
R825	ERX2SJR22	RESISTOR	2W	5%	R22Ω	
R827	ERDS1FJ100	CARBON	0.5W	5%	10Ω	

Ref No.	Part No.	Description				
R828	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R829	ERD25TJ471	CARBON	0.25W	5%	470Ω	
R831	ERD75TAJ825	CARBON	0.75W	5%	8M2Ω	⚠
R832	ERG1SJ331	METAL	1W	5%	330Ω	⚠
R835	ERD25TJ220	CARBON	0.25W	5%	22Ω	
R836	ERD25TJ100	CARBON	0.25W	5%	10Ω	
R837	ERD25TJ153	CARBON	0.25W	5%	15KΩ	
R838	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R853	ERO25CKF1002	METAL	0.25W	1%	10KΩ	⚠
R854	ERDS1TJ153	CARBON	0.5W	5%	15KΩ	
R855	ERD25TJ472	CARBON	0.25W	5%	4K7Ω	
R856	ERD25TJ473	CARBON	0.25W	5%	47KΩ	
R858	ERO25CKF1002	METAL	0.25W	1%	10KΩ	⚠
R862	ERD25TJ472	CARBON	0.25W	5%	4K7Ω	
R863	ERG3FJ680	METAL	3W	5%	68Ω	⚠
R864	ERDS1TJ103	CARBON	0.5W	5%	10KΩ	
R865	ERG3FJ680	METAL	3W	5%	68Ω	⚠
R867	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R870	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R873	ERDS1TJ3R3	CARBON	0.5W	5%	3R3Ω	
R876	ERD25TJ562	CARBON	0.25W	5%	5K6Ω	
R877	ERO25CKF1022	METAL	25W	1%	10KΩ	⚠
R878	ERO25CKF1002	METAL	0.25W	1%	10KΩ	⚠
R883	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R885	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R886	ERF10ZK4R7	WOUND	10W	5%	4R7Ω	⚠
R888	ERDS1TJ393	CARBON	0.5W	5%	39KΩ	
R889	ERD25TJ392	CARBON	0.25W	5%	3K9Ω	
R890	ERX3SJR56	RESISTOR	3W	5%	R56Ω	
R891	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R892	ERD25TJ222	CARBON	0.25W	5%	2K2Ω	
R894	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R905	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R906	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KΩ	
R907	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2Ω	
R908	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R911	ERD25TJ561	CARBON	0.25W	5%	560Ω	
R913	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KΩ	
R914	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R915	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8Ω	
R916	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω	
R918	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R919	ERQ14AJW390	FUSIBLE	14W	5%	39Ω	⚠
R920	ERQ14AJW390	FUSIBLE	14W	5%	39Ω	⚠
R922	ERD25TJ683	CARBON	0.25W	5%	68KΩ	
R923	ERD25TJ683	CARBON	0.25W	5%	68KΩ	
R924	ERDS1FYJ390	CARBON	0.5W	5%	39Ω	⚠
R925	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R926	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R927	ERD25TJ122	CARBON	0.25W	5%	1K2Ω	
R928	ERD25TJ2R7	CARBON	0.25W	5%	2R7Ω	
R929	ERDS1FYJ471	CARBON	0.5W	5%	470Ω	⚠
R930	ERD25TJ2R7	CARBON	0.25W	5%	2R7Ω	
R931	ERDS1FYJ390	CARBON	0.5W	5%	39Ω	⚠
R932	ERDS1FYJ101	CARBON	0.5W	5%	100Ω	⚠
R933	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R934	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R935	ERQ14AJW3R9	FUSIBLE	14W	5%	3R9Ω	⚠
R936	ERQ1CJP102	METAL	1W	5%	1KΩ	⚠
R937	ERQ14AJW100	METAL	0.25W	5%	10Ω	⚠
R938	ERD25TJ122	CARBON	0.25W	5%	1K2Ω	
R940	ERD25TJ3R3	CARBON	0.25W	5%	3R3Ω	
R941	ERD25TJ3R3	CARBON	0.25W	5%	3R3Ω	
R1054	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R1057	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R1058	ERD25TJ471	CARBON	0.25W	5%	470Ω	
R1059	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R1061	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R1062	ERD25TJ222	CARBON	0.25W	5%	2K2Ω	
R1063	ERD25TJ222	CARBON	0.25W	5%	2K2Ω	
R1064	ERD25TJ332	CARBON	0.25W	5%	3K3Ω	
R1065	ERD25TJ512	CARBON	0.25W	5%	5K1Ω	
R1066	ERD25TJ912	CARBON	0.25W	5%	9K1Ω	
R1101	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R1102	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R1103	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R1104	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R1105	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R1106	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R1107	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	

Ref No.	Part No.	Description			
R1108	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1111	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1112	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1118	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1119	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1122	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1123	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1124	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1125	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1126	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1128	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω
R1129	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω
R1133	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1134	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1135	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R1136	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω
R1137	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560Ω
R1138	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1142	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1143	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω
R1144	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R1145	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1149	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ
R1150	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1151	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1152	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1153	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1154	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1156	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8Ω
R1163	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5Ω
R1164	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1169	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R1170	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω
R1171	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8Ω
R1172	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560Ω
R1174	ERDS1TJ561	CARBON	0.5W	5%	560Ω
R1182	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1183	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1184	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1185	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1186	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1188	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω
R1190	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R1191	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R1192	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R1193	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1194	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1301	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R1302	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω
R1305	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1306	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1307	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6Ω
R1308	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1MΩ
R1313	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R1315	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1317	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180Ω
R1318	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180Ω
R1319	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R1320	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1321	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1322	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1323	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1324	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1325	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1326	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1327	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω
R1328	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R1329	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R1337	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6Ω
R1340	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7Ω
R1501	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1502	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1504	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120Ω
R1507	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7Ω
R1508	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120Ω
R1510	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω

Ref No.	Part No.	Description			
R1511	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7Ω
R1513	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7Ω
R1515	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R1516	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R1517	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R1518	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1519	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1520	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1523	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1550	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω
R1551	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18Ω
R1552	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1554	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18Ω
R1555	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω
R1560	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1561	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1562	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1563	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18Ω
R1568	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω
R1570	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω
R1572	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560Ω
R1575	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390Ω
R1576	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820Ω
R1577	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R1578	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω
R1581	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1605	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1606	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1608	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1620	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1621	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1622	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1624	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R1625	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270Ω
R1626	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390Ω
R1627	ERJ6GEYJ622	SM.CARB	0.125W	5%	6K2Ω
R1628	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω
R1629	ERJ6GEYJ201	S.M.CARB	0.1W	5%	200Ω
R1630	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180Ω
R1631	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1632	ERJ6GEYJ133	SM.CARB	0.125W	5%	13KΩ
R1633	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω
R1634	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R1641	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1643	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R1644	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1646	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω
R1647	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω
R1648	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1649	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1650	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1652	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R1653	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1654	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1656	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R1659	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1662	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1666	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R1667	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1668	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω
R1679	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ
R1680	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R1681	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R1682	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω
R1683	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω
R1688	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560Ω
R1701	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18Ω
R1703	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1704	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1705	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ
R1706	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ
R1707	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18Ω
R1710	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18Ω
R1713	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1716	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R1724	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560Ω
R1730	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820Ω
R1777	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560Ω
R1778	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820Ω
R2001	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ
R2004	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R2005	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω

Ref No.	Part No.	Description				
R2006	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R2007	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KΩ	
R2008	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R2009	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R2010	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R2011	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R2012	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R2013	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R2014	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2015	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R2016	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2017	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R2018	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2019	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2020	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6Ω	
R2021	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R2022	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2023	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R2025	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KΩ	
R2026	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6Ω	
R2027	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R2038	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R2039	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2044	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2045	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R2351	ERQ14AJW100	METAL	0.25W	5%	10Ω	⚠
R2352	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R2353	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R2354	ERD25TJ473	CARBON	0.25W	5%	47KΩ	
R2355	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2356	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2357	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2358	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2359	ERD25TJ271	CARBON	0.25W	5%	270Ω	
R2360	ERD25TJ183	CARBON	0.25W	5%	18KΩ	
R2361	ERD25TJ100	CARBON	0.25W	5%	10Ω	
R2371	ERQ14AJW100	METAL	0.25W	5%	10Ω	⚠
R2372	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R2373	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R2374	ERD25TJ473	CARBON	0.25W	5%	47KΩ	
R2375	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2376	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2377	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2378	ERD25TJ102	CARBON	0.25W	5%	1KΩ	
R2379	ERD25TJ271	CARBON	0.25W	5%	270Ω	
R2380	ERD25TJ183	CARBON	0.25W	5%	18KΩ	
R2381	ERD25TJ100	CARBON	0.25W	5%	10Ω	
R3006	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R3101	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3102	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3107	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3108	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3109	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R3110	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R3111	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3112	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3114	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R3115	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3117	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3118	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R3119	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ	
R3120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3122	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ	
R3123	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R3124	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R3125	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω	
R3126	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3127	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3128	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3129	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R3130	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R3131	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω	
R3132	ERD2FCVG100T	CARBON	2W	2%	10Ω	
R3133	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3134	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3135	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3136	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R3137	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R3138	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω	
R3139	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	

Ref No.	Part No.	Description			
R3140	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3141	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3142	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3143	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ
R3144	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3145	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3146	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ
R3147	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R3148	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3149	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3150	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω
R3151	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3152	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3153	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3154	ERD2FCVG100T	CARBON	2W	2%	10Ω
R3158	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω
R3159	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω
R3160	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KΩ
R3161	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120Ω
R3162	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3163	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R3165	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R3167	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R3178	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3180	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3182	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3184	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3185	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ
R3186	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3187	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ
R3188	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3192	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3193	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3194	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3195	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3196	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω
R3197	ERD2FCVG100T	CARBON	2W	2%	10Ω
R3198	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω
R3199	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω
R3200	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R3201	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω
R3202	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω
R3205	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R3206	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R3207	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R3208	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3209	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3210	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5Ω
R3211	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5Ω
R3212	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KΩ
R3213	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3214	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R3215	ERD2FCVG100T	CARBON	2W	2%	10Ω
R3216	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68Ω
R3217	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R3218	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3219	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KΩ
R3220	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3221	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R3222	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68Ω
R3223	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R3224	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3225	ERD2FCVG100T	CARBON	2W	2%	10Ω
R3226	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R3227	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3228	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68Ω
R3229	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3230	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R3231	ERD2FCVG100T	CARBON	2W	2%	10Ω
R3232	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7Ω
R3233	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω
R3236	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R3237	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R3238	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R3239	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R3240	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R3351	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3352	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R3353	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470KΩ
R3354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R3355	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390Ω

Ref No.	Part No.	Description				
R3501	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω	
R3502	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R3503	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R3505	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω	
R3506	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω	
R3507	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R3508	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R3509	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3513	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R3514	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R3515	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R3516	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R3517	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3518	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R3520	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω	
R3521	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R3522	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R3523	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R3526	ERD25TC0T	CARBON	0.25W	5%	0Ω	
R3531	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω	
R3532	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390Ω	
R3534	ERD25TJ181	CARBON	0.25W	5%	180Ω	
R3536	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R3539	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
R3540	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω	
R3541	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω	
R3542	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω	
R3802	ERG3FJ100	METAL	3W	5%	10Ω	⚠
R3803	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω	
R3804	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	

Ref No.	Part No.	Description	
SWITCHES			
S801	ESB91232A	SWITCH	⚠
S1051	EVQ23405R	SWITCH	
S1052	EVQ23405R	SWITCH	
S1053	EVQ23405R	SWITCH	
S1054	EVQ23405R	SWITCH	
S1055	EVQ23405R	SWITCH	
TRANSFORMERS			
T501	TLHA003	TRANSFORMER	
T551	ZTFH65011A	F.B.T.	⚠
T801	ETP35KAN615U	TRANSFORMER	⚠
T802	ETS49AH137ND	TRANSFORMER	
T803	ETQ19K55AY	TRANSFORMER	
FILTERS			
X101	EFCT6504BF	FILTER	
X102	EFCT5M7MW3	FILTER	
X103	EFCT6R0MW5	FILTER	
X104	K3953−M100	SAW FILTER	
X105	L9454M	SAW FILTER	
X106	EFCV3195T6	CERAMIC FILTER	
X107	EFCT7004BF	CERAMIC FILTER	
X109	EFCV4045T4	CERAMIC FILTER	
X601	TSSA024	CRYSTAL	
X602	TSSA025	CRYSTAL	
X1101	TAF10020	CRYSTAL	
X1551	TSSA009	CRYSTAL	
X2001	4730007158	CRYSTAL	
X3501	TSSA009	CRYSTAL	

DIFFERENCES FOR MODEL TX−W32D3F

Ref No.	Part No.	Description				
MISCELLANEOUS COMPONENTS						
4)	TBM8E1742	MODEL LABEL				
5)	TNPA0292AA	Y P.C.B.				⚠
6)	TLK8E05123	DEGAUSS COIL				⚠
8)	W76LFC185X05	CRT				
9)	TKY8E110	CABINET				⚠
12)	TKU8E00290	BACK COVER				⚠
13)	TNPA0295AW	D P.C.B.				⚠
17)	TNPH0063AZ	E P.C.B.				⚠
20)	TNPA0291AB	M P.C.B.				⚠
24)	TKP8E1148	SPEAKER NET				
	TLK8E05124	GEOMAGNETIC CORRECTION COIL				⚠
	TPC8E4651	OUTER CARTON				
	TPD8E621	TOP CUSHION				
	TPD8E622	BOTTOM CUSHION				
CAPACITORS						
C574	TAC1114Z564A	CERAMIC	400V	0.56µF		
C581	ECQF4153JZH	FILM	400V	15nF		
C819	ECOS2GA181DB	ELECT	400V	180pF		
C820	ECOS2GA181DB	ELECT	400V	180pF		
C1901	ECQM1H474J	FILM	50V	470nF		
C1902	ECQM1H474J	FILM	50V	470nF		
C1903	ECA1EM470GB	ELECT	25V	47pF		
C1904	ECKC1H103JB	CERAMIC	50V	10nF		
DIODES						
D401	MA167TA5	DIODE				
D848	EU02	DIODE				
D852	MTZJT−779.1C	DIODE				
D1052	AU01V0	DIODE				
D1053	AU01V0	DIODE				
D1054	AU01V0	DIODE				
D1055	AU01V0	DIODE				
INTEGRATED CIRCUITS						
IC1104	X24C0302EK	EAROM				
IC1105	27C2001C14AC	EPROM				
IC1901	LA6515	EARTH CORRECTION				
COILS						
L573	ELHKLB028B	COIL				
L1901	EXCELDR25V	COIL				
RESISTOR						
R370	ERQ1CJP1R0	FUSIBLE	1W	5%	1RΩ	⚠
R555	ERO25CKF2802	METAL	25W	1%	28KΩ	⚠
R557	ERO25CKF6492	METAL	25W	1%	65KΩ	⚠
R558	ERO50PKF4532	METAL	50W	1%	45KΩ	⚠
R574	ERG3FJ151	METAL	3W	5%	150Ω	⚠
R591	ERF2AKR15	WIRE	2W	10%	R15Ω	
R847	ERQ1CKPR68	FUSIBLE	1W	5%	R68Ω	⚠
R909	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2KΩ	
R910	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1901	ERD25TJ110	CARBON	0.25W	5%	11Ω	
R1902	ERD25TJ110	CARBON	0.25W	5%	11Ω	
R1903	ERD25TJ154	CARBON	0.25W	5%	150KΩ	
R1904	ERD25TJ154	CARBON	0.25W	5%	150KΩ	
R1905	ERD25TJ154	CARBON	0.25W	5%	150KΩ	
R1906	ERD25TJ753	CARBON	0.25W	5%	75KΩ	
R1908	ERD25TJ682	CARBON	0.25W	5%	6K8Ω	
R1909	ERD25TJ362	CARBON	0.25W	5%	3K6Ω	

DIFFERENCES FOR MODEL TX−W28D3F

Ref No.	Part No.	Description				
MISCELLANEOUS COMPONENTS						
4)	TBM8E1738	MODEL LABEL				
5)	TNPA0292AD	Y P.C.B.				⚠
6)	TXFLK01DAG	DEGAUSS COIL				⚠
8)	W66EHK51X71	CRT				
9)	TKY8E120	CABINET				⚠
12)	TKU8E00300	BACK COVER				⚠
13)	TNPA0295AN	D P.C.B.				⚠
17)	TNPH0063BA	E P.C.B.				⚠
20)	TNPA0348AE	M P.C.B.				⚠
24)	TKP8E1152	SPEAKER NET				
	TPC8E4652	OUTER CARTON				
	TPD8E623	CUSHION TOP				
	TPD8E624	CUSHION BOTTOM				
CAPACITORS						
C028	ECUV1H103KBX	S.M.CAP	50V	10nF		
C574	TAC1114Z824A	CERAMIC	400V	0.82µF		
C581	ECQF4123JZH	FILM	400V	12nF		
C664	ECUV1H103ZFX	S.M.CAP	50V	10nF		
C665	ECUV1H103KBX	S.M.CAP	50V	10nF		
C705	ECUV1H101JCX	S.M.CAP	50V	100pF		
C819	ECOS2GG181NG	ELECT	400V	180µF		⚠
C820	ECOS2GG181NG	ELECT	400V	180µF		⚠
C848	ECKC2H471J	CERAMIC	500V	470pF		⚠
C3813	ECUV1H471JCX	S.M.CAP	50V	470pF		
DIODES						
D373	MTZJT−7715A	DIODE				
D401	MA165TA5	DIODE 1SS133T−77				
D848	ERB32−02E	DIODE RU30LFS1				
D852	MTZJT776.2B	DIODE				
INTEGRATED CIRCUITS						
IC1104	X24C0302EI	EAROM				
IC1105	27C2001C14AE	EPROM				
COILS						
L573	ELHKLB026B	COIL				
RESISTOR						
R370	ERQ1CKPR82	METAL	1W	5%	R82Ω	⚠
R555	ERD25TJ223	CARBON	0.25W	5%	22KΩ	
R557	ERO25CKF7152	METAL	25W	1%	72KΩ	⚠
R558	ERO50PKF5762	METAL	50W	1%	58KΩ	⚠
R574	ERG3FJ121	METAL	3W	5%	120Ω	⚠
R591	ERF5AKR22	WIRE	5W	10%	R22Ω	
R847	ERQ1CKPR33	METAL	0.5W	10%	R33Ω	⚠
R909	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R910	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	

SCHEMATIC DIAGRAM FOR MODELS
TX−W32D3F
TX−W28D3F
(Euro−3HW Chassis)

IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Notes

1. RESISTOR
   All resistors are carbon ¼W resistor, unless marked as follows:
   Unit of resistance is OHM (Ω) (K=1,000, M=1,000,000).
2. CAPACITORS
   All capacitors are ceramic 50V, unless marked as follows:
   Unit of capacitance is μF, unless otherwise stated.
3. COIL
   Unit of inductance is μH, unless otherwise stated.
4. Components marked 'L' on the schematic diagram shows leadless parts.
5. TEST POINT
   Test Point Position
6. EARTH SYMBOL
   Chassis Earth Cold Line Earth Hot
7. VOLTAGE MEASUREMENT
   Voltage is measured by a DC voltmeter.
   Measurement conditions are as follows:

Power source	AC 220V−240V, 50Hz
Receiving Signal	Colour Bar signal (RF)
All customer controls	Maximum position

8. Indicates the video signal path
   Indicates the Audio signal path
   Indicates the Vertical/Horizontal path
9. This schematic diagram is the latest at the time of printing and is subject to change without notice.

Remarks

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD. Take the following precautions:

Precautions

a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
b. Do not short−circuit the hot and cold circuits as electrical components may be damaged.
c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously, as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
d. Make sure to disconnect the power plug before removing the chassis.

SCHEMA TECHNIQUE POUR MODELE
TX−W32D3F
TX−W28D3F
(Euro−3HW Chassis)

REMARQUE IMPORTANTE POUR LA SÉCURITÉ

Les élément portant la marque ⚠ possèdent des caractéristiques de sécurite spécialses. Lors du remplacement de l'une quelconque de ces pièces n' utiliser que celles spécifiées par la fabricant.

Nota :

1. RESISTOR
   Toutes les résistance sont des résistance au carbone 1/4W, sauf indication contraire par les indications suivantes
   L'unité de résistance est l' OHM (Ω) (K=1,000, M=1,000,000).
2. CONDENSATEUR
   Toutes les condensateurs sont des condensateurs céramique 50V, sauf indication contraire par les indications suivantes :
   L'unité de capacitié est le μF, sauf indication contraire.
3. BOBINE
   L'unité d'inductance est le μH, sauf indication contraire
4. Les composants entourés de pointillés, sur le schéma, représentent des éléments non câblés.
5. POINT D'ESSAI
   Position du point d'essai
6. SYMBOL DE TERRE
   :Terre du châssis (froid) :Terre de ligne (chaud)
7. MESURE DE TENSION
   La tension est mesurée avec un voltmètre c.c.
   Les conditions de mesure sont les suivantes:

Source d'alignmentation	CA 220V−240V, 50Hz
Signal de réception	Signal barre couleur (RF)
Toutes les commandes utilisateur	Position maximum

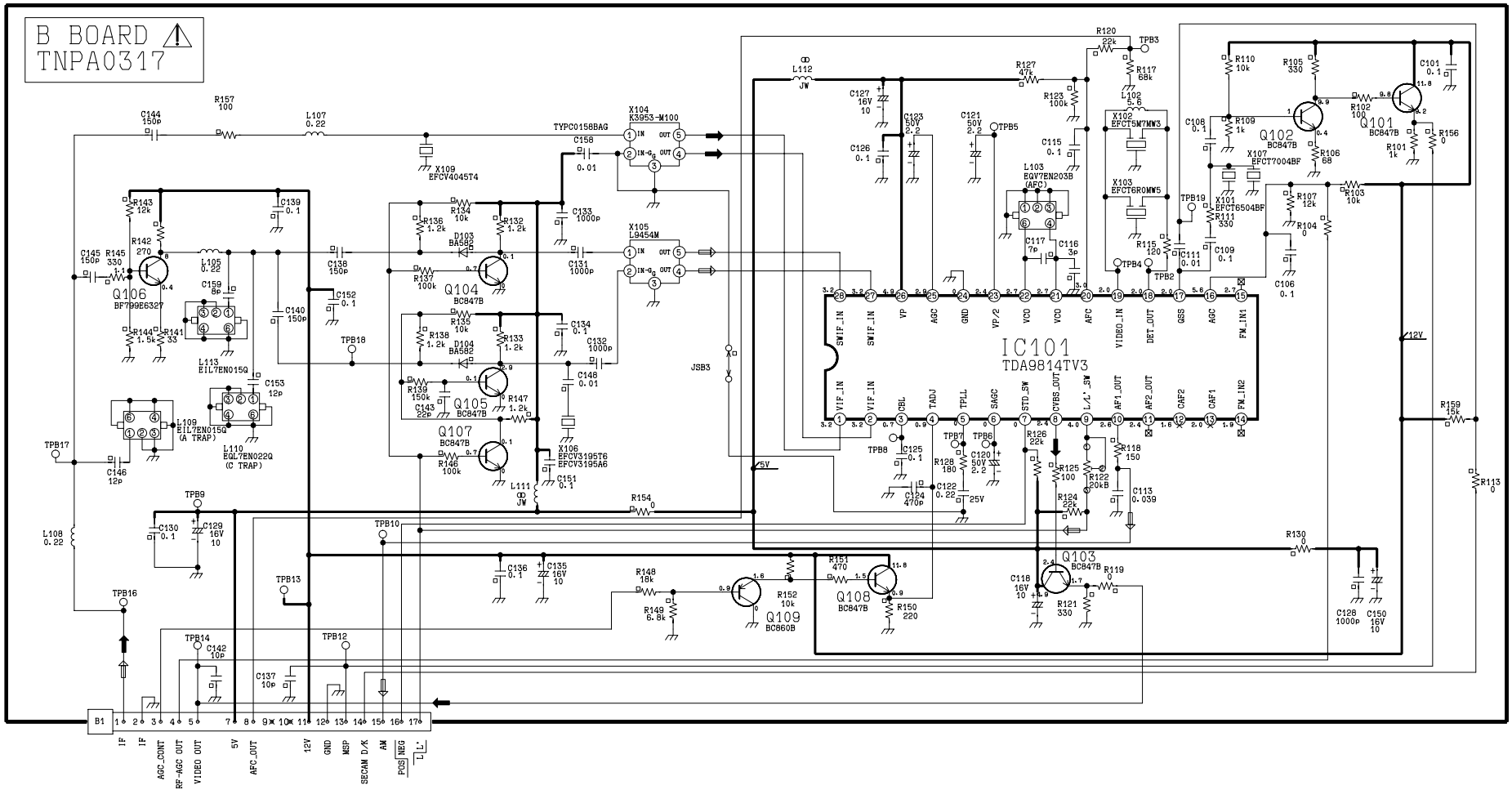
8. :Vidéo
   :Audio
   : Vertical / Horizontal
9. Ce schéma est à jour moment de l'impression et modifiable sans préavis.

Remarque

1. Le circuit d'alimentation contient une zone de qui utilise une alimentation séparée pour isoler la connexion à la terre. Le circuit est défini par les indications chaud (HOT) et froid (COLD) dans le diagramme schématique. Prendre les précautions suivantes. Tous les circuits, sauf le circuit d'alimentation, sont froids.

Précautions

a. Ne pas toucher la partie chaude ou en même temps les parties chaud et froide. Cela présente un risque de décharge électrique.
b. Ne pas court−circuit les circuits chaud et froid car un fusible peut sauter et des pièces se casser.
c. Ne pas raccorder un instrument, comme un oscilloscope, simultanément aux circuits chaud et froid car un fusible peut sauter. Raccorder la terre des instruments à la connexion de terre du circuit mesuré.
d. Toujours débrancher la fiche d'alimentation avant de déposer le châssis.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Q107 BC847B
Q108 BC847B
Q109 BC860B
X101 EFCT6504BF
X102 EFCT5M7MW3
X103 EFCT6R0MW5
X104 K3953-M100
X105 L9454M
X106 EFCV3195T6 EFCV3195A6
X107 EFCT7004BF
X109 EFCV4045T4
L103 EGV7EN203B (AFC)
L109 EIL7EN015Q (A TRAP)
L110 EQL7EN022Q (C TRAP)
L111 JW
L112 JW
L113 EIL7EN015Q
TYPC0158BAG
B1
IF
IF
AGC_CONT
RF-AGC OUT
VIDEO OUT
5V
AFC_OUT
12V
GND
MSP
SECAM D/K
AM
POS
NEG
L
L'
SWIF_IN
SWIF_IN
VP
AGC
GND
VP-2
VCO
VCO
AFC
VIDEO_IN
DET_OUT
GSS
AGC
FM_IN1
VIF_IN
VIF_IN
CBL
TADJ
TPLL
SAGC
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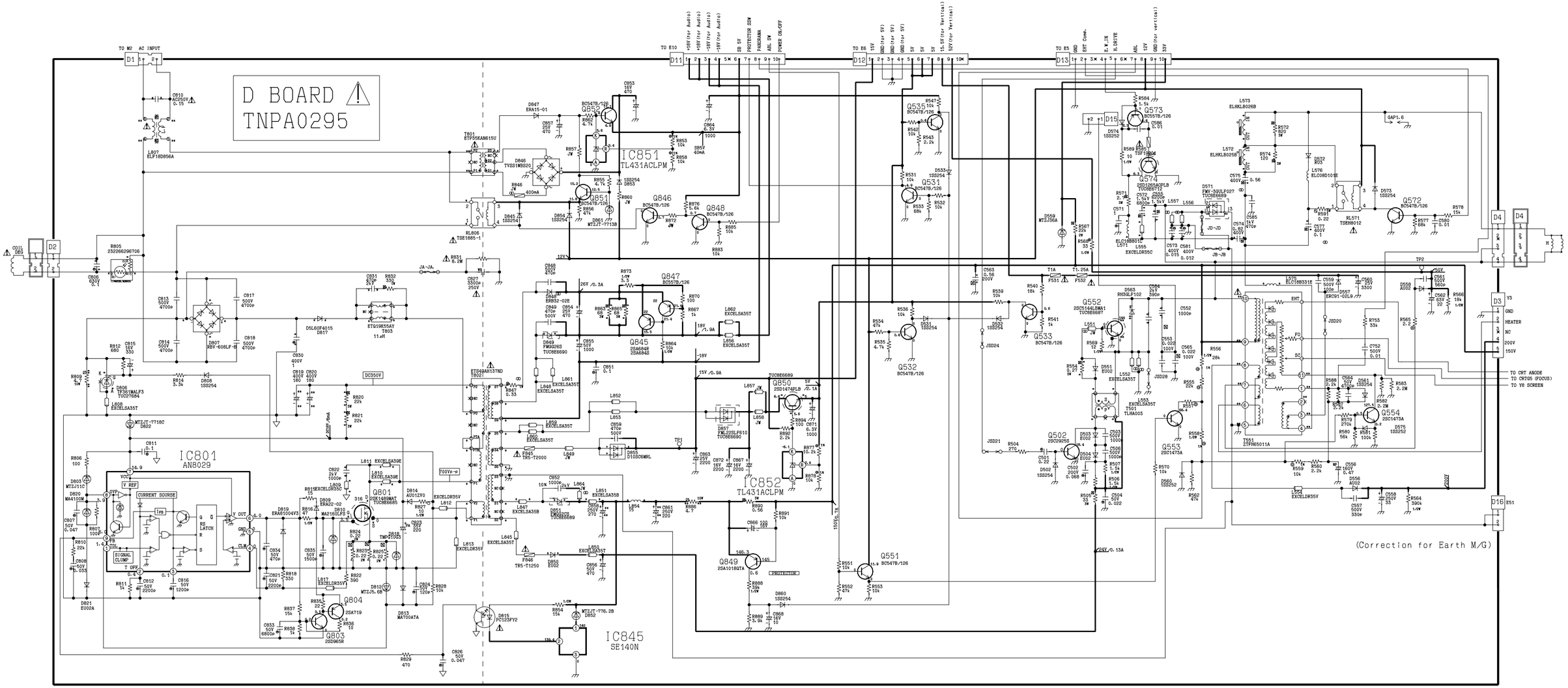
JSB3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IC851
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IC852
TL431ACLPM
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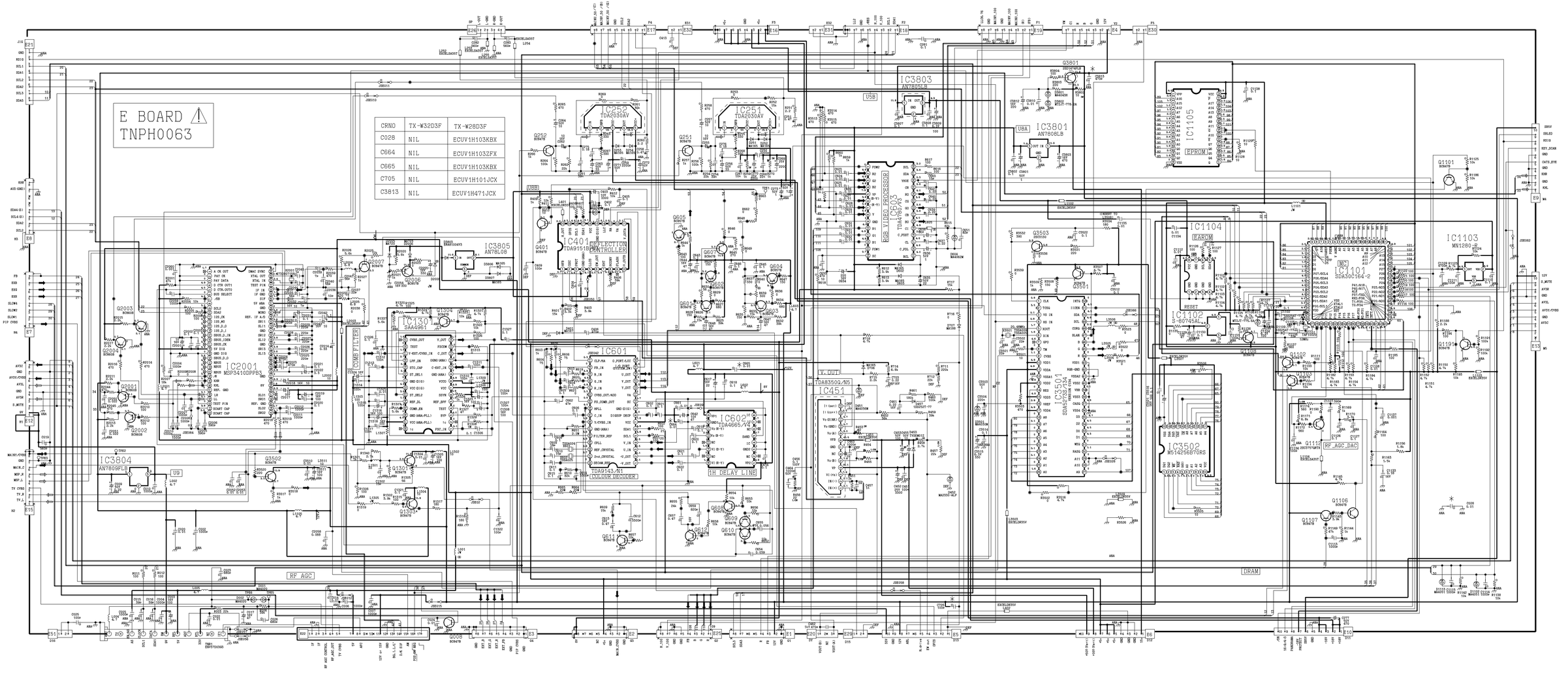
SE140N
Q801
2SK1489MAT
Q803
2SD965R
Q804
2SA719
Q845
2SA684R
2SA684S
Q846
BC547B/126
Q847
BC557B/126
Q848
BC547B/126
Q849
2SA1018QTA
Q850
2SD1047KPLB
Q851
BC547B/126
Q852
BC547B/126
Q853
BC547B/126
Q502
2SC2995R
Q531
BC547B/126
Q532
BC547B/126
Q533
BC547B/126
Q535
BC547B/126
Q551
BC547B/126
Q552
2SC5144ELBMA1
Q553
2SC1473A
Q554
2SC1473A
Q572
BC547B/126
Q573
BC557B/126
Q574
2SD1265A2PLB
TO M2 AC INPUT
TO E10
TO E6
TO E5
TO CRT ANODE
TO CRT95 (FOCUS)
TO Y8 SCREEN
(Correction for Earth M/G)


E BOARD
TNPH0063
CRNO | TX-W32D3F | TX-W28D3F
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C664 | NIL | ECUV1H103ZFX
C665 | NIL | ECUV1H103KBX
C705 | NIL | ECUV1H101JCX
C3813 | NIL | ECUV1H471JCX
IC2001 MSP3410DPPB3
IC1301 SAA4961
IC401 TDA9151B DEFLECTION CONTROLLER
IC601 TDA9143/N4 COLOUR DECODER
IC602 TDA4665/V2 1H DELAY LINE
IC603 TDA4780/V3 RGB VIDEO PROCESSOR
IC451 TDA8350Q/N5 V OUT
IC3511 SDA5276/334
IC3502 M514256B70RS
IC1101 SDA5DC164-2
IC1102 S-80745AL
IC1103 MN1280
IC1104 EAROM
IC1105 (EPROM)
IC3803 AN6950LB
IC3804 AN7809FLB
IC3801 AN7908LB
IC3805 AN7805
TDA2030AV
TDA2030AV
TDA2030AV
RF AGC
DRAM
SCART1
SCART2
SCART3
SCART4
SCART5
SCART6
SCART7
SCART8
SCART9
SCART10
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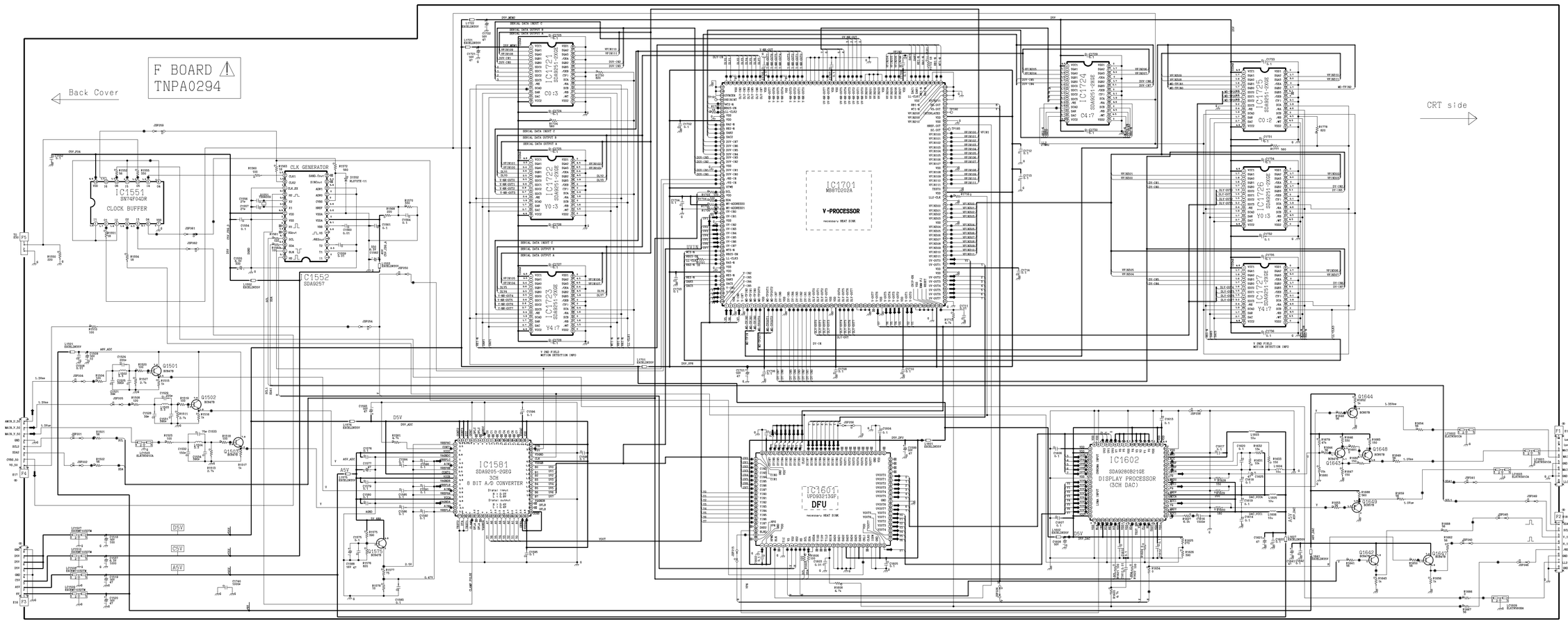
SCART19
SCART20
SCART21

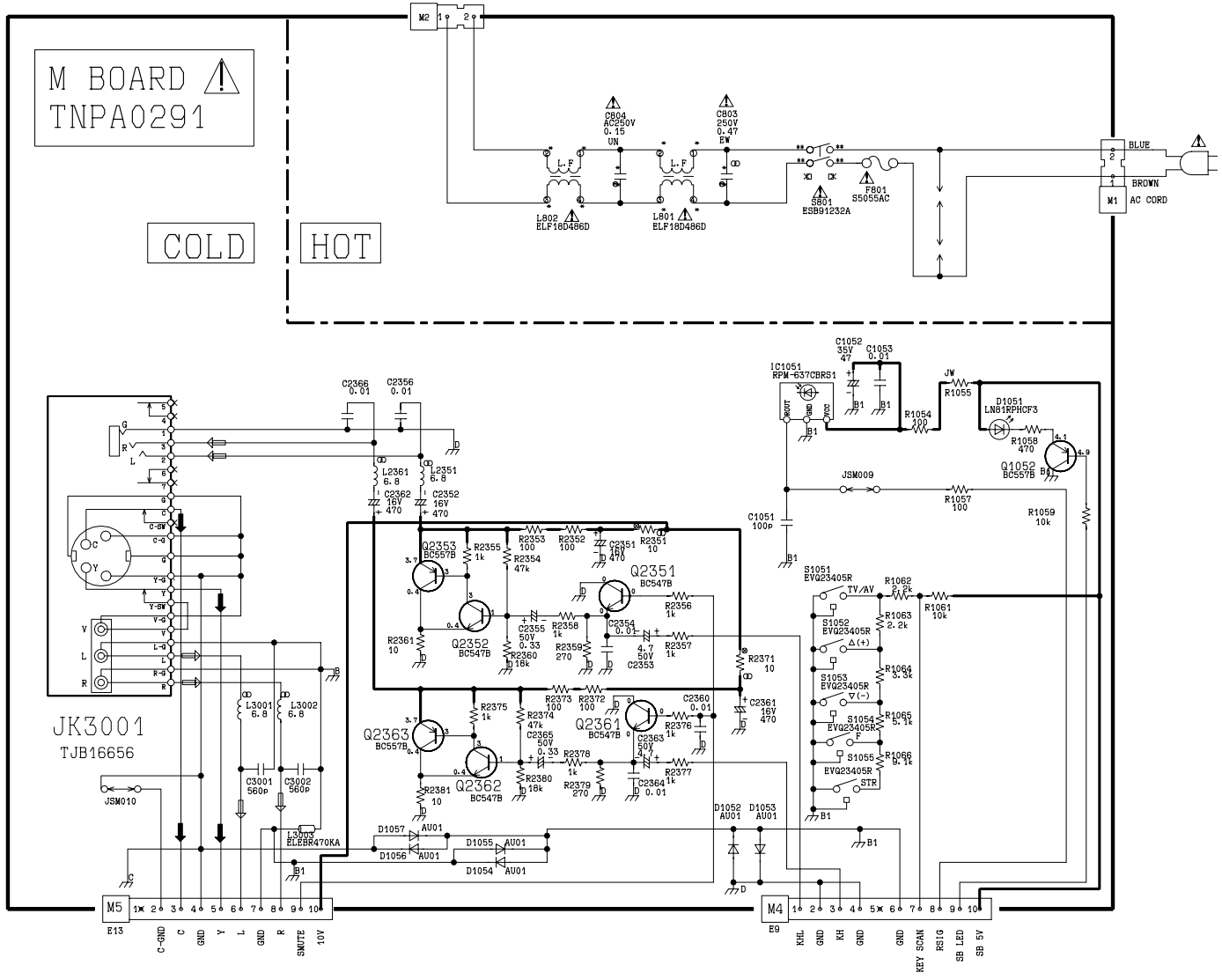

F BOARD
TNPA0294
Back Cover
CRT side
IC1701
MB87D202A
V-PROCESSOR
necessary HEAT SINK
IC1601
UPD932139F
DFU
necessary HEAT SINK
IC1602
SDA9280B21GE
DISPLAY PROCESSOR
(3CH DAC)
IC1581
SDA9205-2GEG
3CH
8 BIT A/D CONVERTER
IC1551
SN74F04DR
CLOCK BUFFER
IC1552
SDA9257
CLK GENERATOR
IC1721
SDA9251-2GE
IC1722
SDA9251-2GE
IC1723
SDA9251-2GE
IC1724
SDA9251-2GE
IC1725
SDA9251-2GE
IC1726
SDA9251-2GE
IC1727
SDA9251-2GE
V 2ND FIELD
MOTION DETECTION INFO
5V
D5V
C5V
A5V
3.3Vsw

H BOARD ⚠
TNPA0293

AV4 JK3104
AV2 JK3102
AV1 JK3101
R ch JK3106 YKB11-0867
L ch JK3103 YKB11-0866

IC3102 TEA6415C
IC3101 TEA6420

H1 12V S.MUTE AV3 R GND AV3 L AV3Y/CVBS GND AV3 C
H2 TV L TV R TV CVBS MSP L MSP R MAIN C GND MAINY/CVBS
H3 SCL2 SDA2 SCL4 SDA4
H4 SLOW1 SLOW2 SLOW4 EXR EXG EXB FB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COLD
HOT
M2
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UN
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250V
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EW
L.F
L802
ELF18D486D
L801
ELF18D486D
S801
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FB01
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BLUE
BROWN
M1
AC CORD
JK3001
TJB16656
JSM010
JSM009
M5
E13
C-GND
C
GND
Y
L
GND
R
SMUTE
10V
M4
E9
KHL
GND
KH
GND
GND
KEY SCAN
RSIG
SB LED
SB 5V
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BC557B
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S1052
EVQ23405R
S1053
EVQ23405R
S1054
EVQ23405R
S1055
EVQ23405R
TV/AV
STR
L3001
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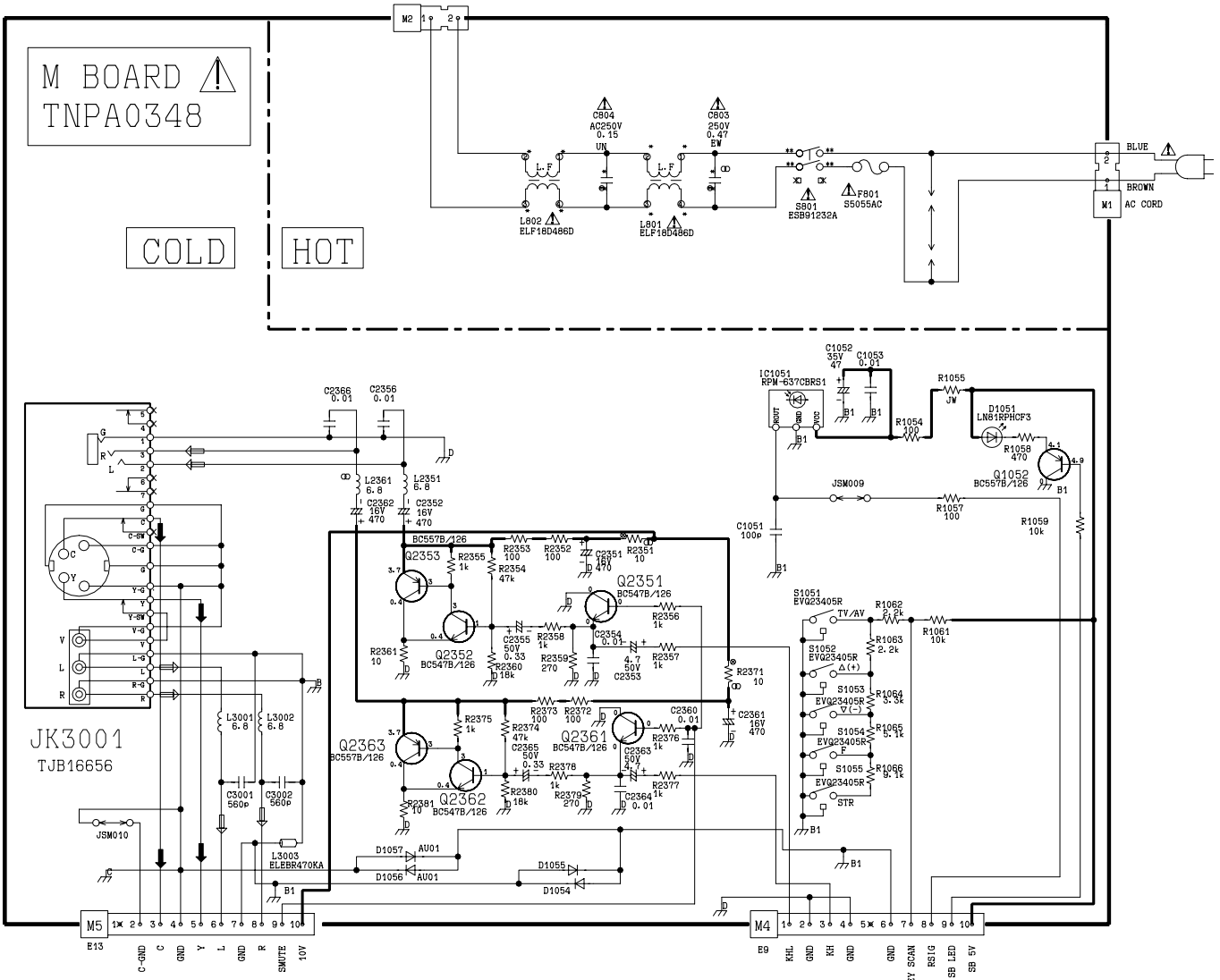
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UN
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EW
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L801
ELF18D486D
S801
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F801
S5055AC
BLUE
BROWN
W1
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JK3001
TJB16656
M5
M4
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R1055
JW
D1051
LNG61RPHCF3
R1054
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R1058
470
Q1052
BC557B/126
JSM009
R1057
100
R1059
10k
C1051
100p
S1051
EVQ23405R
TV/AV
R1062
2.2k
R1061
10k
S1052
EVQ23405R
R1063
2.2k
S1053
EVQ23405R
R1064
5.1k
S1054
EVQ23405R
R1065
5.1k
S1055
EVQ23405R
R1066
5.1k
STR
C2366
0.01
C2356
0.01
L2361
6.8
L2351
6.8
C2362
16V
470
C2352
16V
470
Q2353
BC557B/126
R2355
1k
R2353
100
R2352
100
C2351
16V
470
R2351
10
R2354
47k
Q2351
BC547B/126
R2356
1k
R2361
10
Q2352
BC547B/126
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0.33
R2358
1k
R2360
18k
R2359
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4.7
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C2353
R2357
1k
R2371
10
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16V
470
L3001
6.8
L3002
6.8
C3001
560p
C3002
560p
JSM010
L3003
ELEBR470KA
R2375
1k
R2373
100
R2372
100
C2360
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Q2363
BC557B/126
R2374
47k
C2365
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0.33
Q2361
BC547B/126
R2376
1k
C2363
50V
4.7
Q2362
BC547B/126
R2378
1k
R2380
18k
R2379
270
C2364
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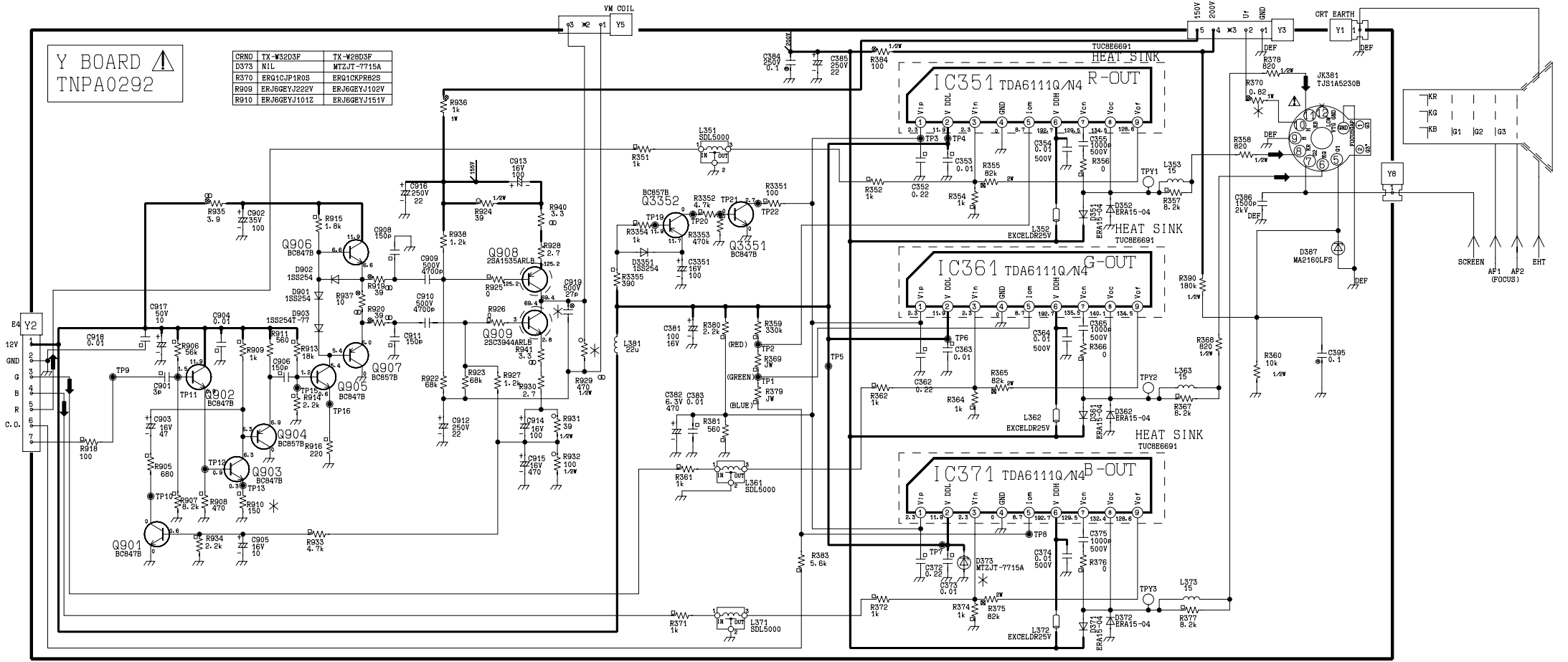
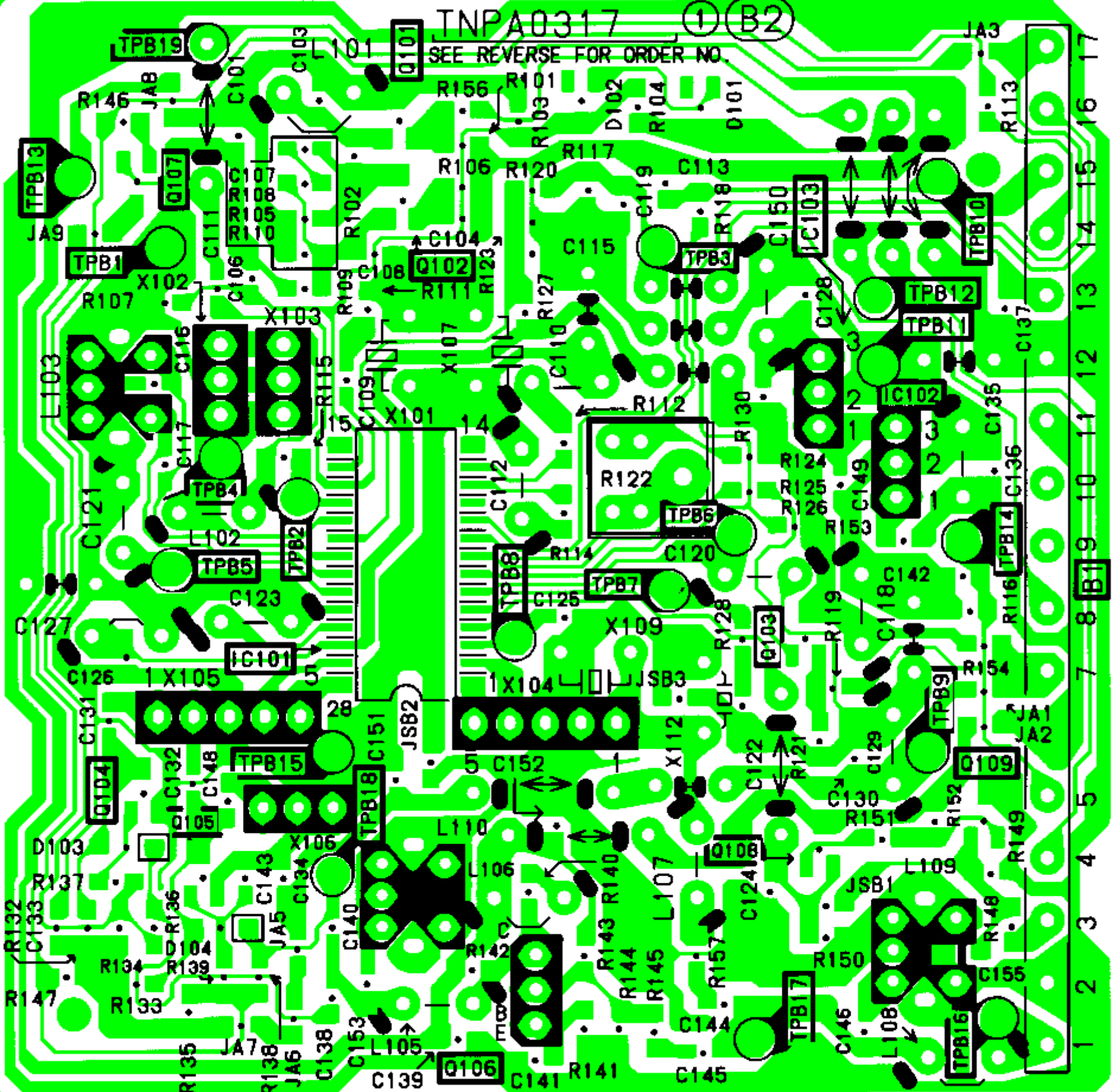
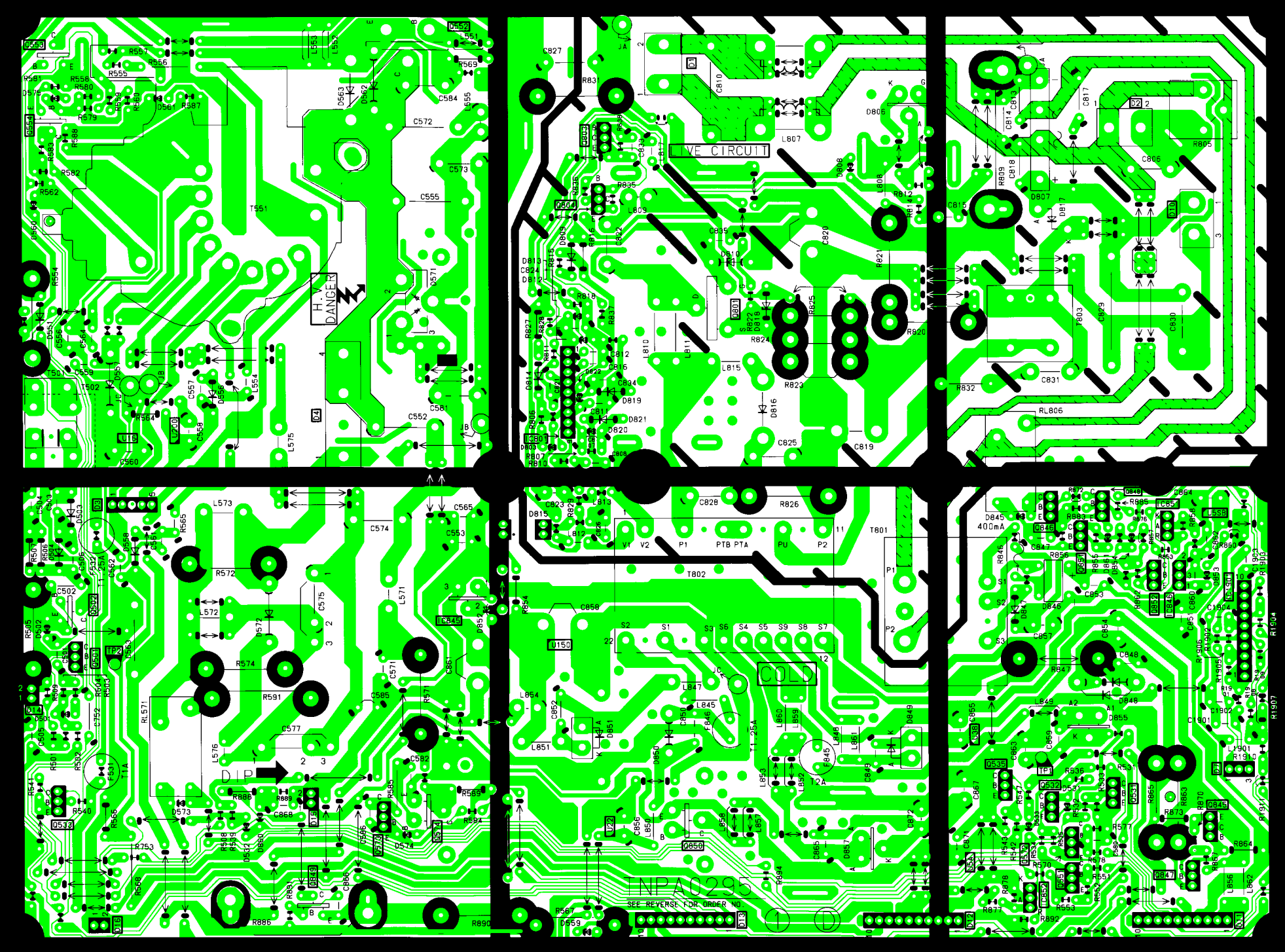
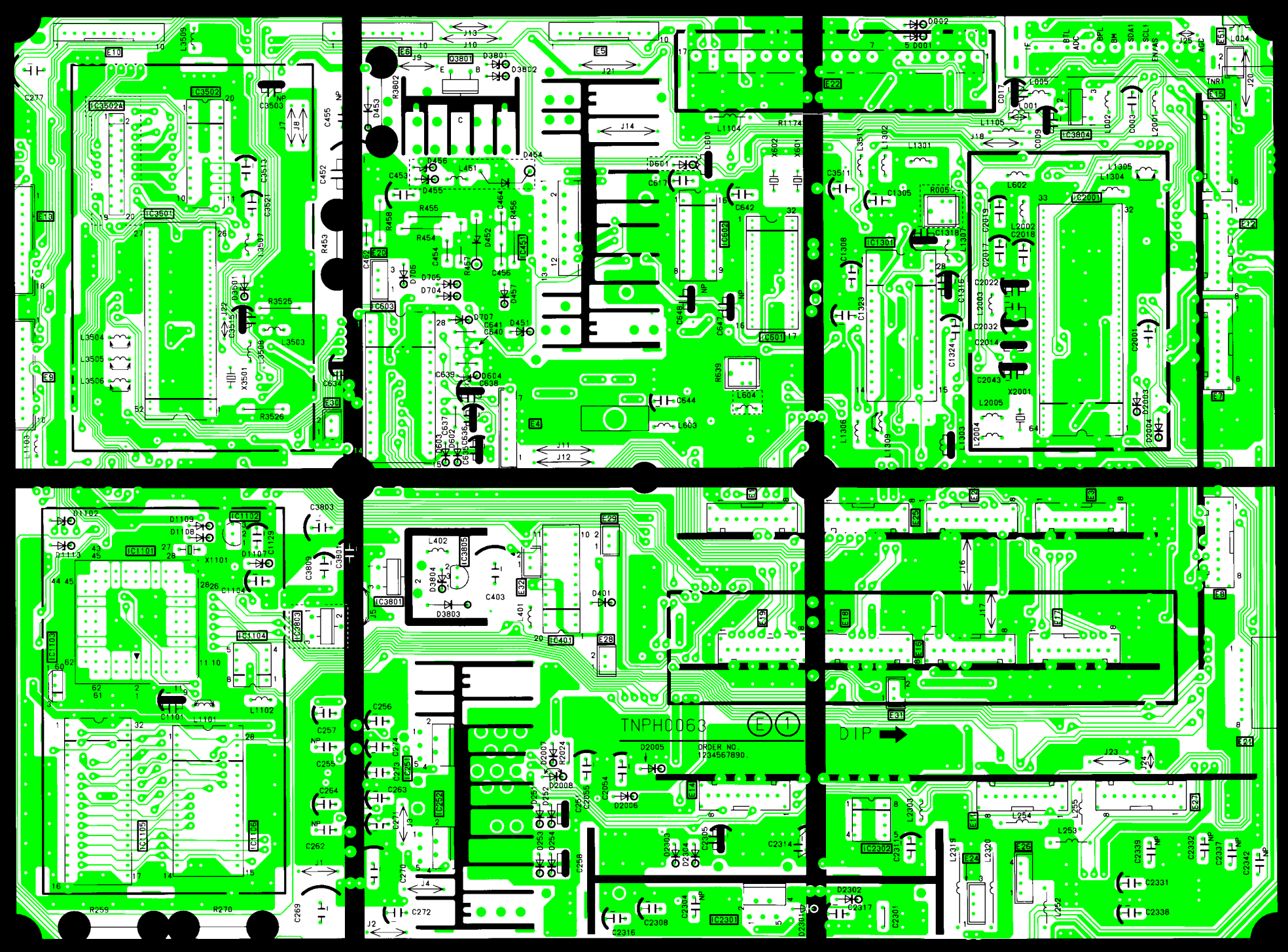
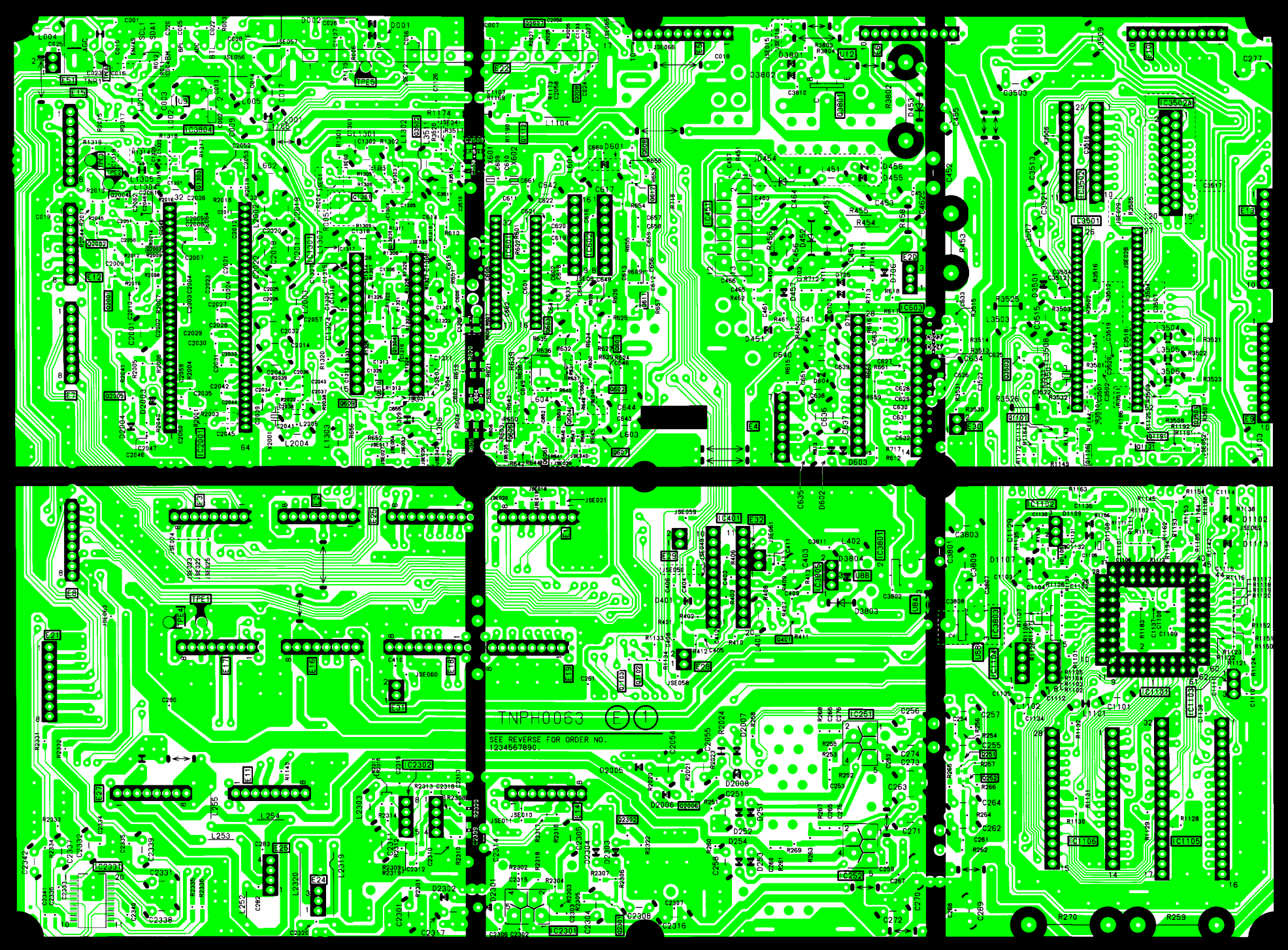
R2377
1k
R2381
10
D1057
AU01
D1056
AU01
D1055
D1054
C-GND
C
GND
Y
L
GND
R
SMUTE
10V
E9
KHL
GND
KH
GND
GND
KEY SCAN
RS1G
SB LED
SB 5V

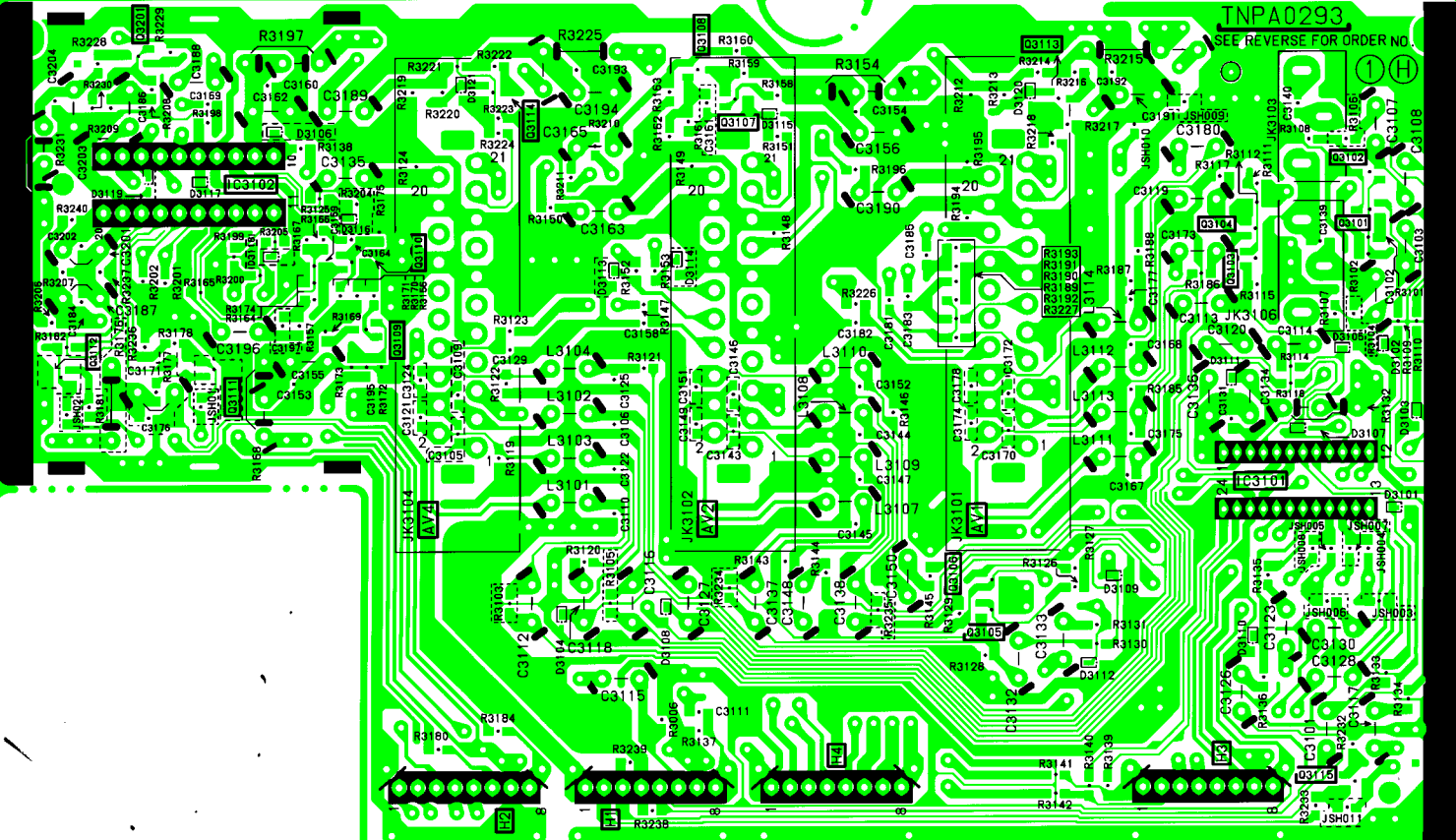

Y BOARD ⚠
TNPA0292
CRNO TX-W32D3F TX-W28D3F
D373 NIL MTZJT-7715A
R370 ERQ1CJP1R0S ERQ1CKPR82S
R909 ERJ6GEYJ222V ERJ6GEYJ102V
R910 ERJ6GEYJ101Z ERJ6GEYJ151V
VM COIL
Y5
CRT EARTH
Y1
Y3
HEAT SINK
TUC8E6691
IC351 TDA6111Q/N4 R-OUT
IC361 TDA6111Q/N4 G-OUT
IC371 TDA6111Q/N4 B-OUT
JK381 TJS1A5230B
Y8
KR
KG
KB
G1
G2
G3
SCREEN
AF1
AF2 (FOCUS)
EHT
D387 MA2160LFS
E4
Y2
12V
GND
G
B
R
C.O.
Q901 BC847B
Q902 BC847B
Q903 BC847B
Q904 BC857B
Q905 BC847B
Q906 BC847B
Q907 BC857B
Q908 2SA1535ARLB
Q909 2SC3944ARLB
Q3351 BC847B
Q3352 BC857B
D373 MTZJT-7715A
D901 1SS254
D902 1SS254
D903 1SS254T-77
D3351 1SS254
L351 SDL5000
L361 SDL5000
L371 SDL5000
L381 22u
L352 EXCELDR25V
L362 EXCELDR25V
L372 EXCELDR25V
D352 ERA15-04
D362 ERA15-04
D372 ERA15-04
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
TP10
TP11
TP12
TP13
TP16
TP19
TP20
TP21
TP22
TPY1
TPY2
TPY3
(RED)
(GREEN)
(BLUE)
DEF


TNPA0317 (1) (B2)
SEE REVERSE FOR ORDER NO.
TPB19
L101
Q101
R156
R101
D102
R104
Q101
JA3
R113
R146
JA8
C101
C103
R103
R117
R106
R120
C113
C119
R118
C150
IC103
TPB10
TPB13
Q107
C107
R108
R105
R110
R102
C111
C106
C104
Q102
R111
R123
C108
R109
C115
TPB3
TPB12
TPB11
JA9
TPB1
X102
R107
X103
C116
C117
C110
R127
C128
C137
C135
C136
L103
R115
C109
X107
X101
R112
R130
IC102
R124
R125
R126
C149
R153
TPB4
TPB2
C121
L102
TPB5
C123
C112
R122
TPB6
C120
TPB14
R116
B1
TPB8
R114
TPB7
C125
X109
C142
C118
R119
R128
Q103
C127
C126
IC101
1 X105
28
1 X104
JSB3
JSB2
C151
C131
C132
C148
TPB15
TPB18
Q104
Q105
X106
C152
X112
C122
R121
C129
TPB9
JA1
JA2
Q109
R154
C130
R151
R152
R149
D103
R137
C143
C134
JA5
L110
L106
C140
R140
L107
Q108
L109
JSB1
C124
R157
R148
R132
C133
R136
D104
R134
R139
R142
R143
R144
R145
R150
C155
R147
R133
JA7
JA6
C138
C153
L105
Q106
C139
C141
R141
C144
C145
TPB17
C146
L108
TPB16
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17


H.V.
DANGER
LIVE CIRCUIT
COLD
TNPA0295
SEE REVERSE FOR ORDER NO


TNPH0063
ORDER NO.
1234567890.
DIP


TNPH0063 E1
SEE REVERSE FOR ORDER NO.
1234567890.


TNPA0293
SEE REVERSE FOR ORDER NO.
1 H
JK3101
JK3102
JK3103
JK3104
JK3106
AV1
AV2
AV3
AV4
IC3101
IC3102
IC3118
L3101
L3102
L3103
L3104
L3107
L3110
L3111
L3112
L3113
L3114
Q3101
Q3102
Q3103
Q3104
Q3105
Q3107
Q3113
Q3114
D3101
D3102
D3103
D3104
D3105
D3106
D3107
D3108
D3109
D3110
D3111
D3112
D3115
D3117
D3119
D3120
D3201
D3202
D3203
D3204
D3205
D3206
D3207
D3208
D3209
D3210
D3211
D3212
D3213
D3214
D3215
D3216
D3217
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D3220
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D3227
D3228
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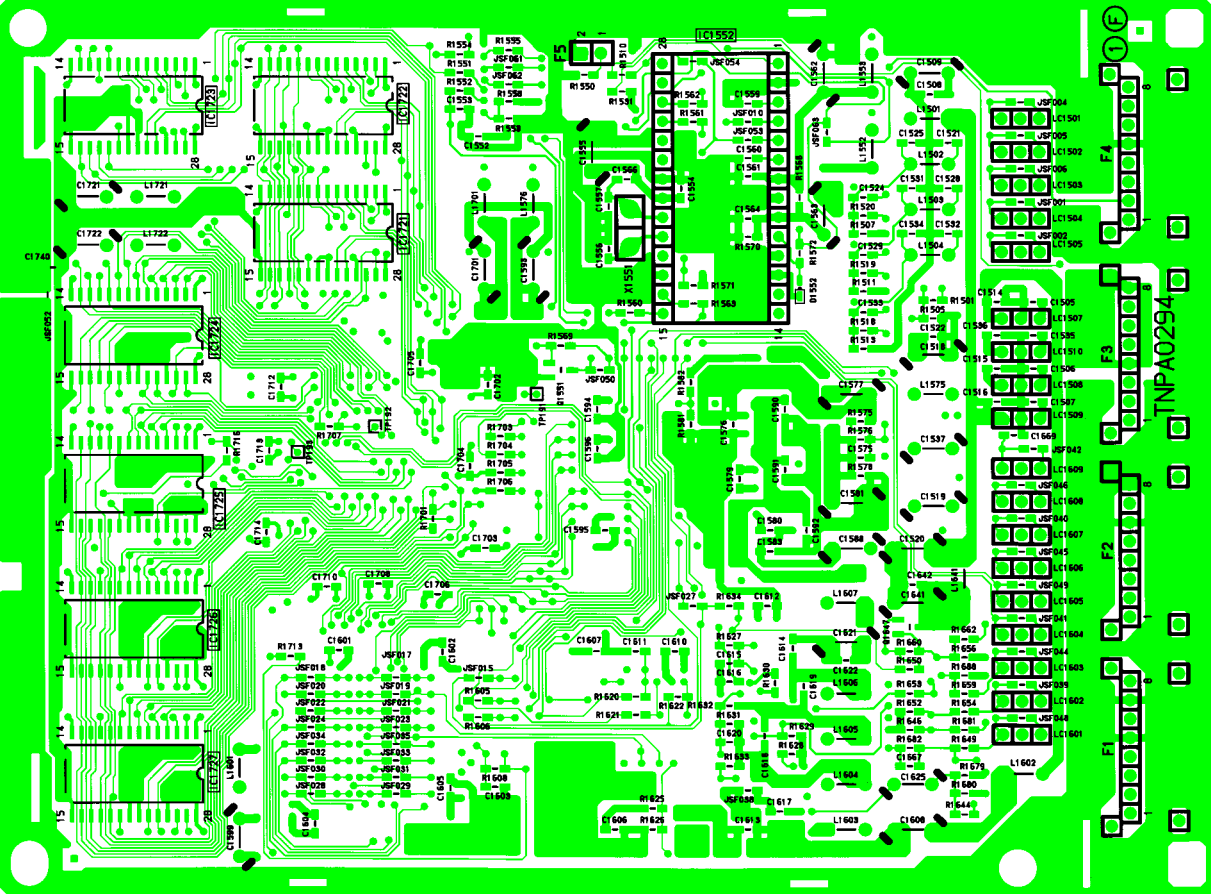
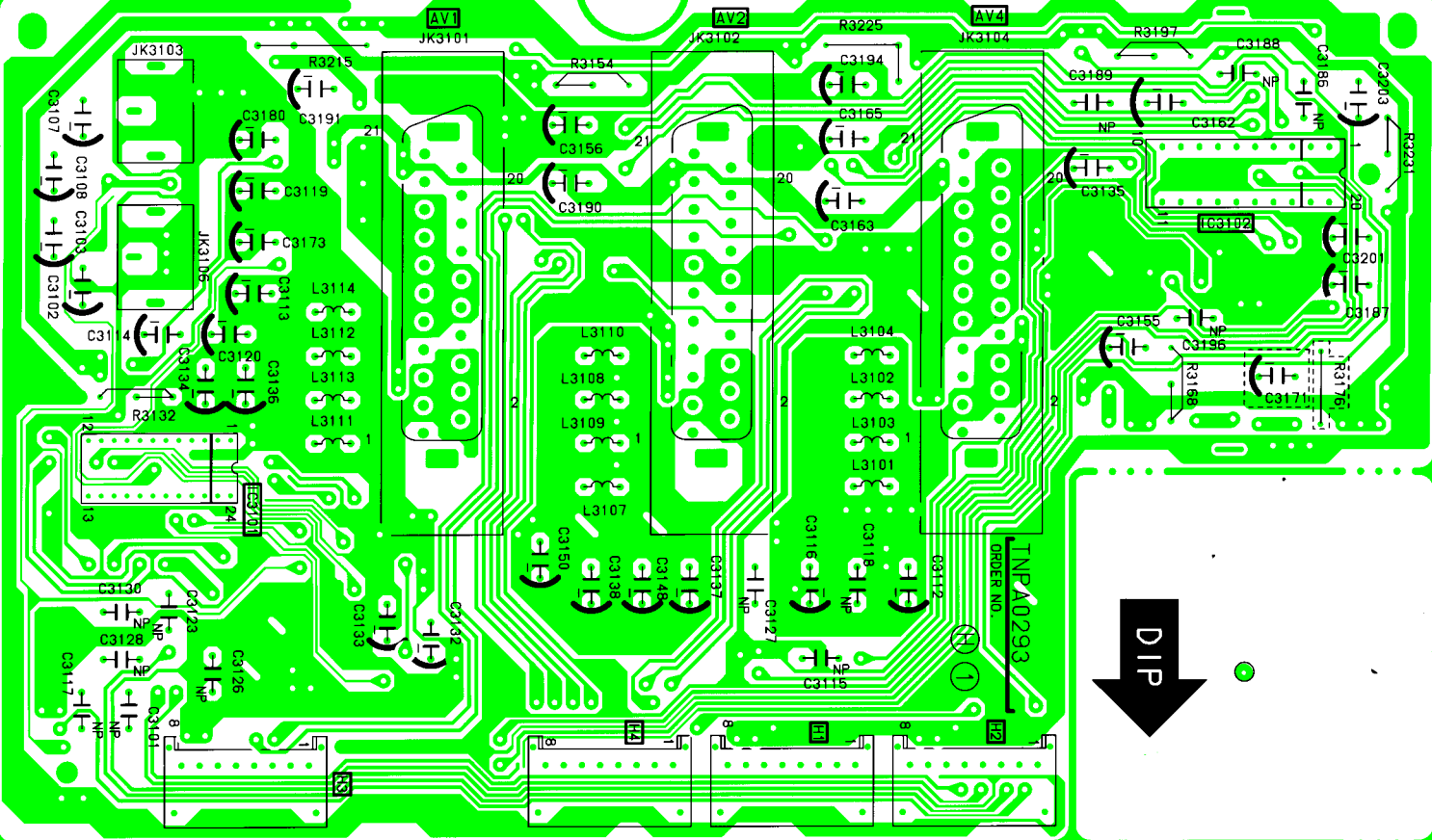
D3238
D3239
D3240


TNPA0294


AV1
JK3101
AV2
JK3102
AV4
JK3104
JK3103
JK3105
R3215
R3154
R3225
R3197
C3188
C3189
C3194
C3165
C3156
C3190
C3163
C3135
C3162
C3203
C3231
C3320
C3187
C3155
C3136
C3171
R3168
R3176
IC3102
C3180
C3191
C3119
C3173
C3107
C3108
C3103
C3102
C3114
C3113
C3120
C3134
C3136
R3132
L3114
L3112
L3113
L3111
L3110
L3108
L3109
L3107
L3104
L3102
L3103
L3101
C3150
C3138
C3148
C3137
C3116
C3118
C3112
C3127
C3115
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C3117
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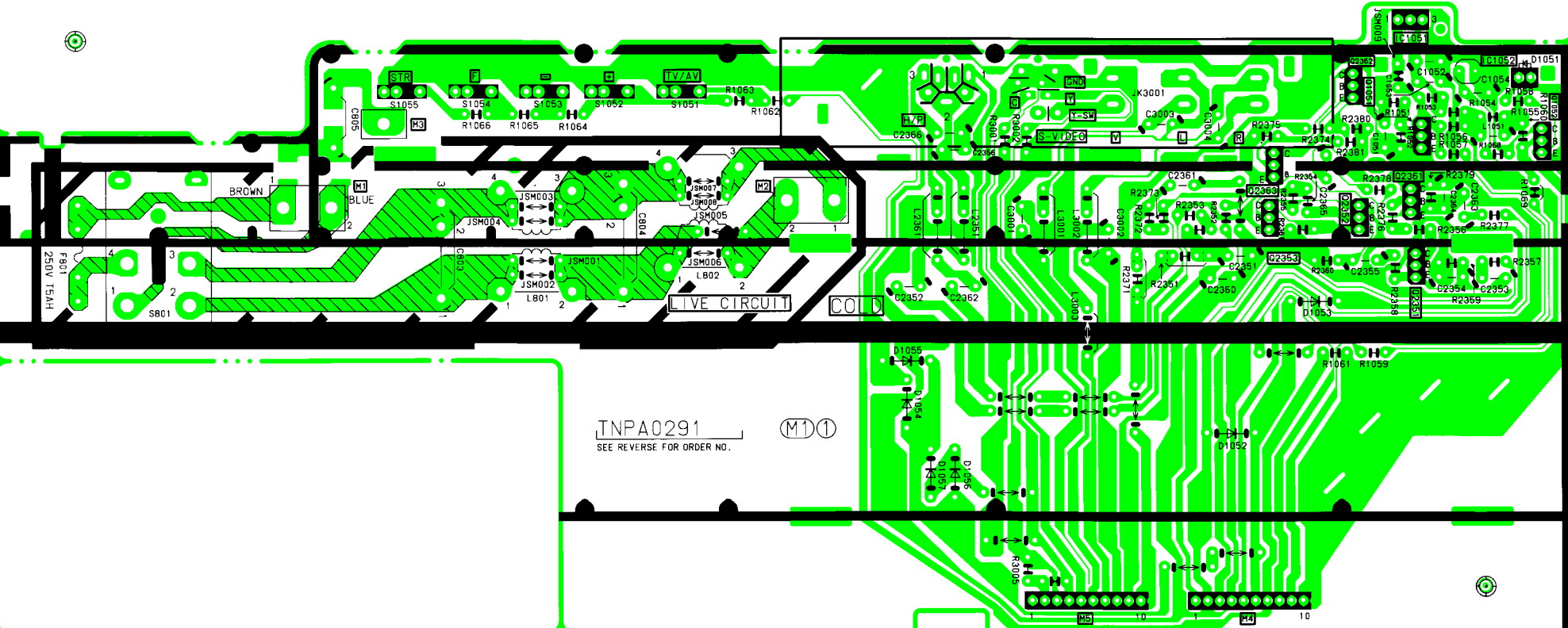
C3132
IC3101
TNPA0293
ORDER NO.
DIP
NP


STR
F
H
TV/AV
S1055
S1054
S1053
S1052
S1051
R1063
R1062
R1066
R1065
R1064
C805
M3
M1
BROWN
BLUE
M2
JSM003
JSM004
JSM001
JSM002
JSM007
JSM008
JSM005
JSM006
C804
C803
L801
LB02
F801
250V T5AH
S801
LIVE CIRCUIT
COLD
TNPA0291
SEE REVERSE FOR ORDER NO.
M1 1
GND
Y
Y-SW
S-VIDEO
V
L
R
C
K3001
C3003
C3004
R3001
R3002
C2356
C2366
R2375
R2374
R2381
R2380
C2361
R2373
R2372
R2353
C2360
C2351
C2352
C2362
C3001
C3002
L3001
L3002
L2361
R2371
R2351
C2359
C2358
C2357
C2354
C2355
R2360
R2359
R2358
R2357
R2356
R2377
R2376
R2379
R2378
C2363
C2364
C2365
R2369
R2368
R2367
R2366
R2365
R2364
R2363
R2362
Q2362
Q2363
Q2364
Q2365
D1053
D1055
D1054
D1052
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R1059
R1060
R1058
R1057
R1056
R1055
R1054
C1052
C1054
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C1080
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C1082
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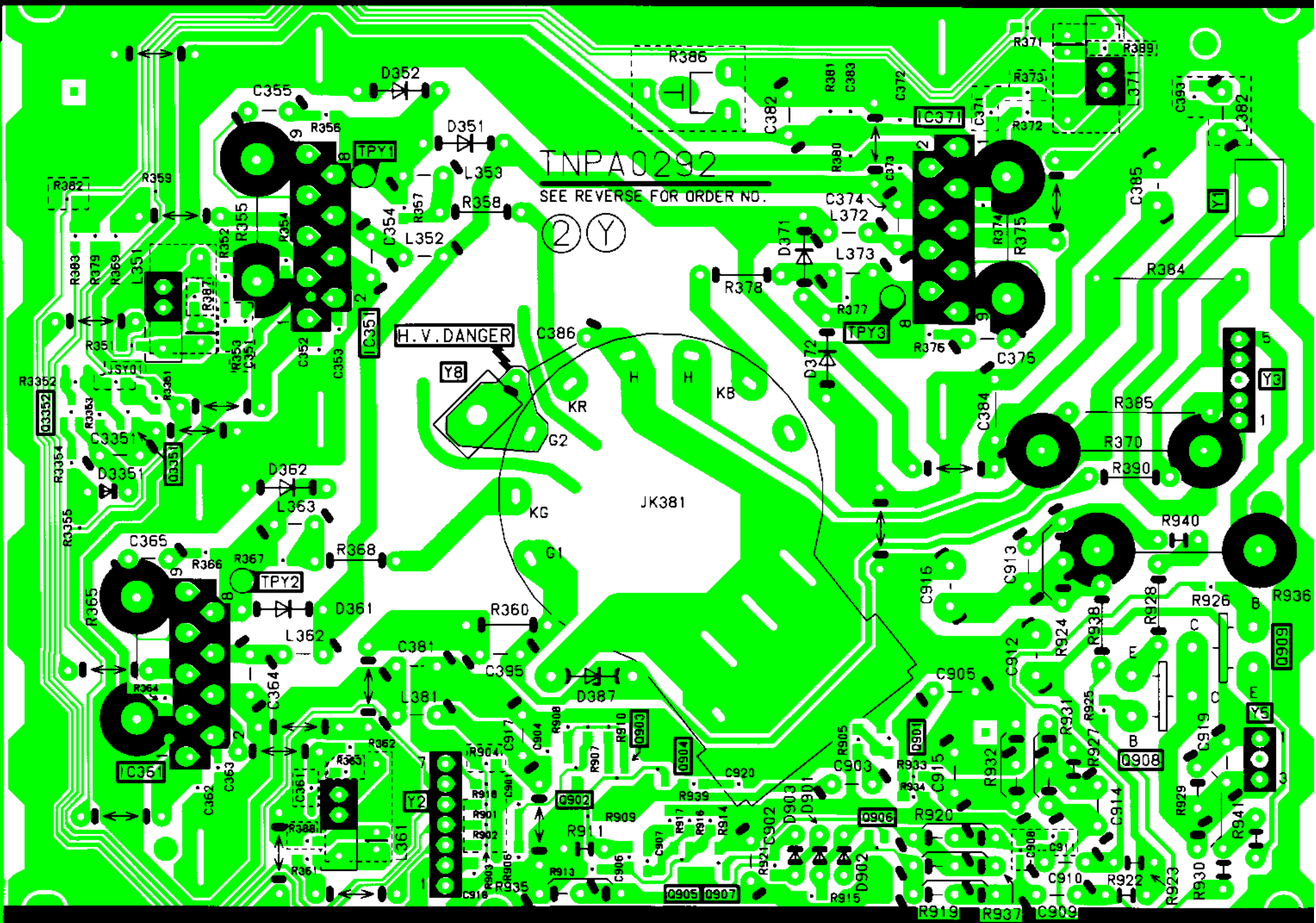
C1094


TNPA0292
SEE REVERSE FOR ORDER NO.
2Y
H.V.DANGER
Y8
KR
KG
KB
G2
G1
JK381
IC351
IC371
TPY1
TPY2
TPY3
Y1
Y2
Y3
Y5
Q901
Q902
Q903
Q904
Q905
Q906
Q907
Q908
Q909
D351
D352
D361
D362
D371
D372
D387
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R360
R368
R370
R378
R384
R385
R386
R390
R911
R919
R920
R922
R936
R937
R940